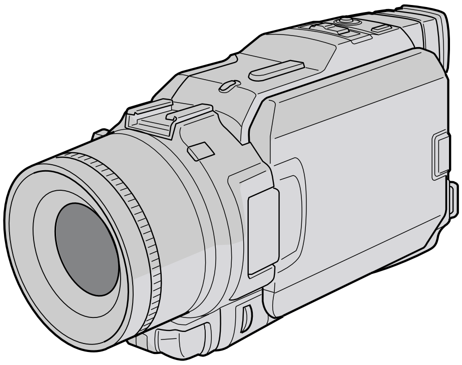
JVC

SERVICE MANUAL

DIGITAL VIDEO CAMERA

GR-DV1800EG/EK,DV2000EG/EK



Mini DV PAL

DIGITAL STILL CAMERA

SPECIFICATIONS

Camcorder

For General

Power supply : DC 6.3 ⎓ V (Using AC Power Adapter/Charger)
DC 7.2 ⎓ V (Using battery pack)
Power consumption
LCD monitor off, viewfinder on : Approx. 4.4 W
LCD monitor on, viewfinder off : Approx. 5.3 W
Dimensions (W x H x D) : 74 mm x 90 mm x 178 mm (with the LCD monitor closed and the viewfinder pushed back in, without the lens hood)
Weight : Approx. 660 g (without cassette, memory card and battery)
Approx. 740 g (incl. cassette, memory card and battery)
Operating temperature : 0°C to 40°C
Operating humidity : 35% to 80%
Storage temperature : –20°C to 50°C
Pickup : 1/4" CCD (Progressive Scan)
Lens : F 1.8, f = 3.8 mm to 38 mm, 10:1 power zoom lens
Filter diameter : ø52 mm
LCD monitor : 3.5" diagonally measured, LCD panel/TFT active matrix system
Viewfinder : Electronic viewfinder with 0.44" colour LCD
Speaker : Monaural

For Digital Video Camera

Format : DV format (SD mode)
Signal format : PAL standard
Recording/Playback format : Video: Digital component recording
: Audio: PCM digital recording, 32 kHz 4-channel (12-bit), 48 kHz 2-channel (16-bit)
Cassette : Mini DV cassette
Tape speed : SP: 18.8 mm/s
LP: 12.5 mm/s
Maximum recording time (using 80 min. cassette) : SP: 80 min.
LP: 120 min.

For Digital Still Camera

Storage media : SD Memory Card/MultiMediaCard
Compression system : JPEG (compatible)
File size : 3 modes (UXGA: 1600 x 1200 pixels/XGA: 1024 x 768 pixels/VGA: 640 x 480 pixels)
Picture quality : 2 modes (FINE/STANDARD)
Approximate number of storable images
(with the provided MultiMediaCard [8 MB])
FINE : 50 (VGA), 24 (XGA), 10 (UXGA)
STANDARD : 150 (VGA), 72 (XGA), 30 (UXGA)
(with an optional MultiMediaCard [16 MB])
FINE : 100 (VGA), 48 (XGA), 20 (UXGA)
STANDARD : 300 (VGA), 144 (XGA), 60 (UXGA)

For Connectors

AV
Video output : 1 V (p-p), 75 Ω, analogue
Video input (GR-DV2000 only) : 0.5 V (p-p) – 2.0 V (p-p), 75 Ω, analogue
Audio output : 308 mV (rms), 1 kΩ, analogue, stereo
Audio input (GR-DV2000 only) : 308 mV (rms), 50 kΩ, analogue, stereo
DV
Output : 4-pin, IEEE 1394 compliant
Input (GR-DV2000 only) : 4-pin, IEEE 1394 compliant
PHONE
Headphone output : ø3.5 mm, stereo
MIC
External microphone input : 459 µV (rms), high impedance unbalanced, ø3.5 mm (stereo)
PRINTER : For an optional video printer equipped with a PRINT DATA connector

AC power adapter/charger AA-V40EG or AA-V40EK

Power requirement : AC 110 V to 240 V∿, 50 Hz/60 Hz
Power consumption : 23 W
Output
Charge : DC 7.2 ⎓ , 1.2 A
VTR : DC 6.3 ⎓ , 1.8 A
Dimensions (W x H x D) : 68 mm x 38 mm x 110 mm
Weight
AA-V40EG : Approx. 260 g
AA-V40EK : Approx. 340 g

Jack Box CU-V504U

For General

Dimensions (W x H x D) : 37.5 mm x 18.5 mm x 55 mm
Weight : Approx. 30 g

For Connectors

USB : TYPE B
S-VIDEO : Y: 1 V (p-p), 75 Ω, analogue output
C: 0.29 V (p-p), 75 Ω, analogue output
EDIT : ø3.5 mm, 2-pole

Specifications shown are for SP mode unless otherwise indicated. E & O.E. Design and specifications subject to change without notice.

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The following table lists the differing points between Models GR-DV1800EG/EK and GR-DV2000EG/EK in this serise.

	GR-DV1800EG	GR-DV1800EK	GR-DV2000EG	GR-DV2000EK
AV INPUT	NOT USED		USED	
S INPUT/OUTPUT	NOT USED/USED(JACK BOX)		USED/USED(JACK BOX)	
DV INPUT	NOT USED		USED	
AC ADAPTOR CHARGER	AA-V40EG	AA-V40EK	AA-V40EG	AA-V40EK

Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

● Precautions during Servicing

1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

2. Parts identified by the ⚠ symbol and shaded (▨) parts are critical for safety.
   Replace only with specified part numbers.
   Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

3. Fuse replacement caution notice.
   Caution for continued protection against fire hazard.
   Replace only with same type and rated fuse(s) as specified.

4. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads

5. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers
   4) Insulation sheets for transistors
   5) Barrier

6. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

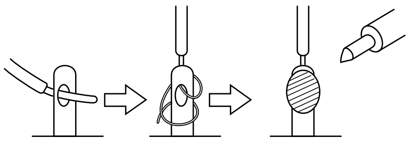


Fig.1

7. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

8. Check that replaced wires do not contact sharp edged or pointed parts.

9. When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.

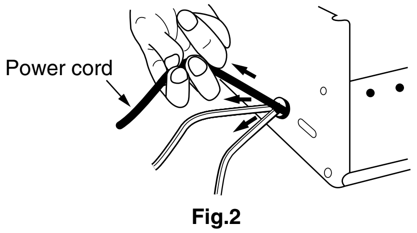


Fig.2

10. Also check areas surrounding repaired locations.

11. Products using cathode ray tubes (CRTs)
    In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission.
    Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits.
    Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

12. Crimp type wire connector
    In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.

    1) Connector part number : E03830-001
    2) Required tool : Connector crimping tool of the proper type which will not damage insulated parts.
    3) Replacement procedure
    (1) Remove the old connector by cutting the wires at a point close to the connector.
    Important : Do not reuse a connector (discard it).

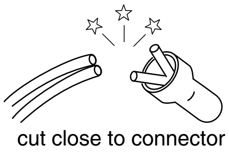


Fig.3

(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

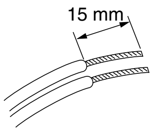


Fig.4

(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

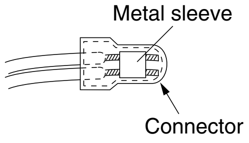


Fig.5

(4) As shown in Fig.6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

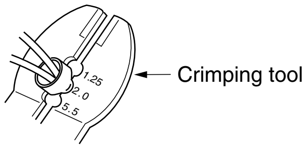


Fig.6

(5) Check the four points noted in Fig.7.

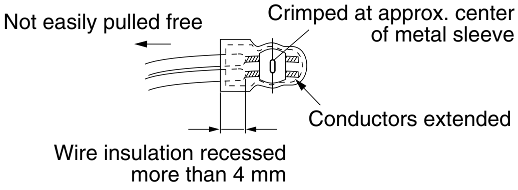

Not easily pulled free
Crimped at approx. center of metal sleeve
Conductors extended
Wire insulation recessed more than 4 mm

Fig.7

● Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. **Insulation resistance test**
   Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

2. **Dielectric strength test**
   Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

3. **Clearance distance**
   When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.

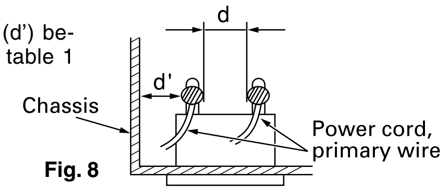


Fig. 8

4. **Leakage current test**
   Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).
   Measuring Method : (Power ON)
   Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.

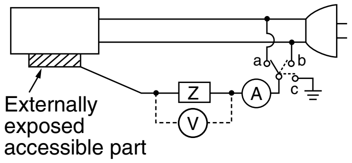


Fig. 9

5. **Grounding (Class 1 model only)**
   Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).
   Measuring Method:
   Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.

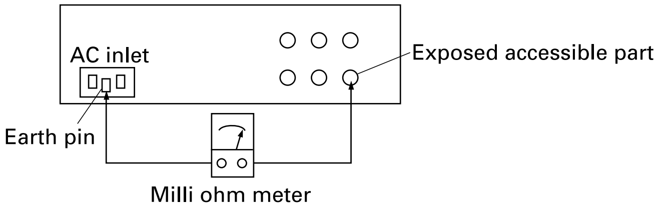


Fig. 10

Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V	Japan	R ≧ 1 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3 mm
100 to 240 V			AC 1.5 kV 1 miute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	1 MΩ ≦ R ≦ 12 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R ≧ 10 MΩ/500 V DC	AC 3 kV 1 minute (Class Ⅱ) AC 1.5 kV 1 minute (Class Ⅰ)	d ≧ 4 mm d' ≧ 8 mm (Power cord) d' ≧ 6 mm (Primary wire)

Table 1 Specifications for each region

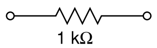
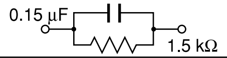
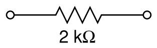
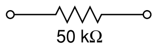
AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	 1 kΩ	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	 0.15 µF 1.5 kΩ	i ≦ 0.5 mA rms	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	 2 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Antenna earth terminals
		 50 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Other terminals

Table 2 Leakage current specifications for each region

Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

SECTION 1
DISASSEMBLY

1.1 BEFORE ASSEMBLY AND DISASSEMBLY

1.1.1 Precautions

1. Be sure to remove the power supply unit prior to mounting and soldering of parts.
2. When removing a component part that needs to disconnect the connector and to remove the screw for removing itself, first disconnect the connecting wire from the connector and then remove the screw beforehand.
3. When connecting and disconnecting the connectors, be careful not to damage the wire.
4. Carefully remove and handle the part to which some spacer or shield is attached for reinforcement or insulation.
5. When replacing chip parts (especially IC parts), desolder completely first (to prevent peeling of the pattern).
6. Tighten screws properly during the procedures.
   Unless specified otherwise, tighten screws at a torque of 0.069N•m(0.7kgf•cm).

1.1.2 Assembly and disassembly

STEP No.	PART	Fig.No.	POINT	NOTE
①	ZOOM OPE UNIT	Fig.1-3-1	3(S①),(L①a),4(L①b),CN(1a)	–
②	FRONT COVER ASSY	Fig.1-3-2	CN(2a) ,2(S②a),(S②b), 2(S②c),2(S②b),CN(2b)	NOTE②a NOTE②b NOTE②c NOTE②d

(1) (2) (3) (4) (5)

(1) Indicate the disassembly steps. When assembling, perform in the reverse order of these steps. This number corresponds to the number in the disassembly diagram.
(2) Indicates the name of disassembly/assembly parts.
(3) Indicates the number in the disassembly diagram.
(4) Indicates parts and points such as screws, washers, springs which must be removed during disassembly/assembly.

Symbol	Name, Point
S	Screw
L	Lock, Pawl, Hook
SD	Soldering
☆(Others)	Connector, Cover, Bracket, etc.

(Example)
- 2 (S①) : Remove the two screws (S①) for removing the part 1.
- CN(1a) : Disconnect the connector (1a) .
- SD① : Unsolder at the point SD①.

(5) Precautions on disassembly/assembly.

1.1.3 Destination of connectors

Note: *Three kinds of double-arrows in connection tables respectively show kinds of connector/wires.*
↔ : Wire
⇔ : Flat wire
⬌ : Board to Board connector

[Example]

Note: *Remove the parts marked in* ▨ *.*

CONN. No.	CONNECTOR			Pin No.
(1a)	AUDIO CN203	⇔	ZOOM OPE –	8

1.1.4 Disconnection of Connectors (Wires)

Connector

Pull both ends of the connector in the arrow direction, remove the lock and disconnect the flat wire.

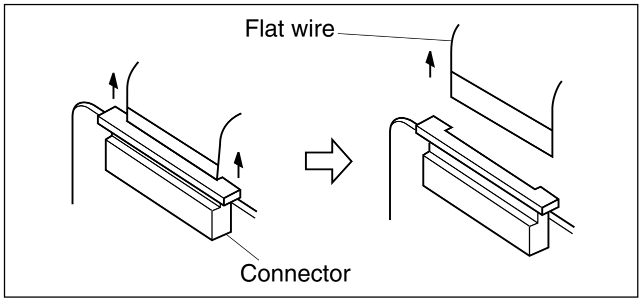


Fig. 1-1-1 Connector 1

Extend the locks in the direction of the arrow for unlocking and then pull out the wire. After removing the wire, immediately restore the locks to their original positions because the locks are apt to come off the connector.

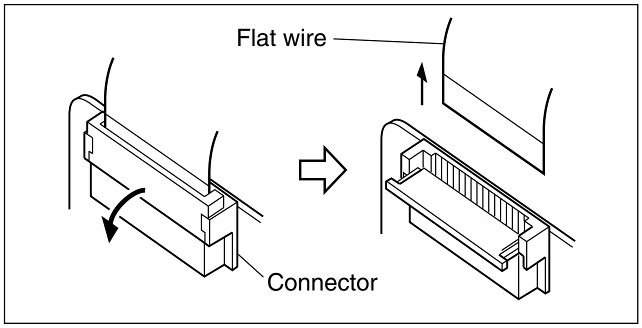


Fig. 1-1-2 Connector 2

B-B connector

Pull the board by both the sides in the direction of the arrow for disconnecting the B-B connector.

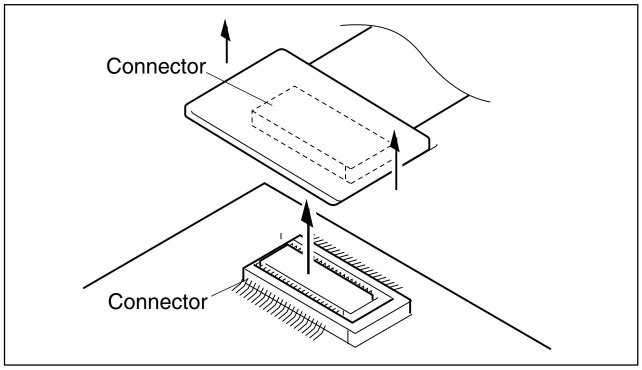


Fig. 1-1-3 Connector 3

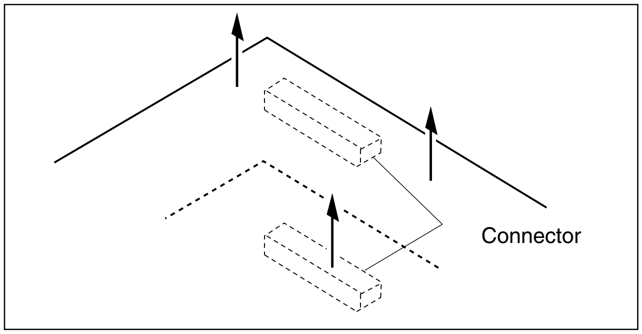


Fig. 1-1-4 Connector 4

1.2 JIGS AND TOOLS REQUIRED FOR DISASSEMBLY, ASSEMBLY AND ADJUSTMENT

1.2.1 Tools required for adjustments

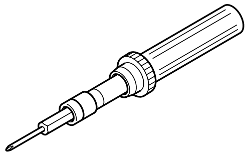
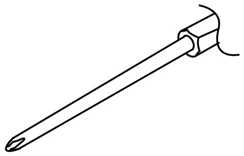
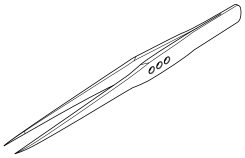
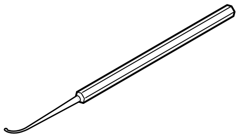
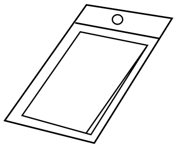
1 Torque Driver YTU94088	2 Bit YTU94088-003
	
3 Tweezers P-895	4 Chip IC Replacement Jig PTS40844-2
	
5 Cleaning Cloth KSMM-01	
	

Table 1-2-1

1. Torque driver
   Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
2. Bit
   This bit is slightly longer than those set in conventional torque drivers.
3. Tweezers
   To be used for removing and installing parts and wires.
4. Chip IC replacement jig
   To be used for adjustment of the camera system.
5. Cleaning cloth
   Recommended cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.

1.3 DISASSEMBLY/ASSEMBLY OF CABINET PARTS AND BOARD ASSEMBLY

1.3.1 Disassembly flow chart

This flowchart indicates the disassembly step for the cabinet parts and board assembly in order to gain access to item(s) to be serviced. When reassembling, perform the step(s) in reverse order.

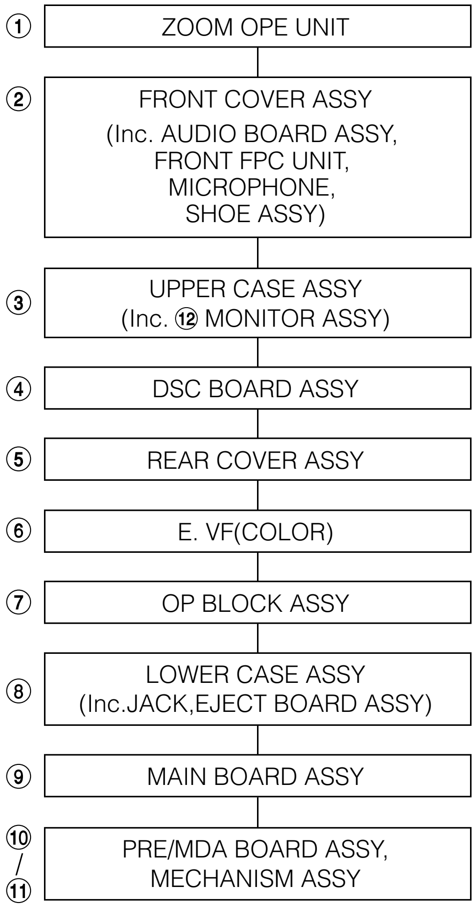

① ZOOM OPE UNIT
② FRONT COVER ASSY (Inc. AUDIO BOARD ASSY, FRONT FPC UNIT, MICROPHONE, SHOE ASSY)
③ UPPER CASE ASSY (Inc. ⑫ MONITOR ASSY)
④ DSC BOARD ASSY
⑤ REAR COVER ASSY
⑥ E. VF(COLOR)
⑦ OP BLOCK ASSY
⑧ LOWER CASE ASSY (Inc.JACK,EJECT BOARD ASSY)
⑨ MAIN BOARD ASSY
⑩/⑪ PRE/MDA BOARD ASSY, MECHANISM ASSY

Table 1-3-1

1.3.2 Disassembly method

STEP No.	PART	Fig.No.	POINT	NOTE
①	ZOOM OPE UNIT	Fig.1-3-1	3(S①),(L①a),4(L①b),CN(1a)	–
②	FRONT COVER ASSY	Fig.1-3-2	CN(2a),2(S②a),(S②b), 2(S②c),2(S②b),CN(2b)	NOTE②a NOTE②b NOTE②c NOTE②d
	AUDIO BOARD ASSY	Fig.1-3-2b	CN(2c),(S②d),(S②e),CN(2d)), CN(2e))	NOTE②e NOTE②f
	FRONT FPC UNIT		SPACER,CN(2f),CN(2g),CN(2h), (S②e)	–
	MICROPHONE	Fig.1-3-2c	2(S②f),(S②g),2(S②h),2(L②a)	NOTE②g NOTE②h
	SHOE ASSY		SPACER,2(L②b)	NOTE②j
③	UPPER CASE ASSY Inc. MONITOR ASSY	Fig.1-3-3	3(S③a),6(S③b),(S③c), CN(3a)	NOTE③a NOTE③b NOTE③c
④	DSC BOARD ASSY	Fig.1-3-4	(S④),LUG WIRE,HEAT SINK, (L④),CN(4a),CN(4b)	NOTE④a NOTE④b
⑤	REAR COVER ASSY	Fig.1-3-5	CN(5a),2(S⑤a),(S⑤b)	–
⑥	E.VF(COLOR)	Fig.1-3-6	HEAT SINK(MAIN),CN(6a),(S⑥a), 2(S⑥b),(L⑥a),(L⑥b),2(L⑥c)	NOTE⑥
⑦	OP BLOCK ASSY	Fig.1-3-7	(S⑦a),LUG WIRE,CN(7a), CN(7b),CN(7c),CN(7d),2(S⑦b), (L⑦a),(L⑦b)	–
⑧	LOWER CASE ASSY	Fig.1-3-8	CN(8a),CN(8b),3(S⑧a), (S⑧b),2(L⑧a),(L⑧b)	–
⑨	MAIN BOARD ASSY	Fig.1-3-9	CN(9a),(S⑨),(L⑨)	–
⑩ / ⑪	PRE/MDA BOARD ASSY, MECHANISM ASSY	Fig.1-3-10	3(S⑩a),BKT(MECHA) ASSY, 2(S⑩b), (L⑩),SHIELD COVER(PRE/REC), CN(10a),CN(10b),CN(10c), CN(10d),CN(10e),CN(10f), 3(S⑩b)	NOTE⑩a NOTE⑩b

Table 1-3-2

Note: *Remove the parts marked in ▨ .*

CONN. No.	CONNECTOR					Pin No.
(1a)	AUDIO	CN203	⇔	ZOOM OPE	–	8
(2a)	AUDIO	CN201	⬌	MAIN	CN112	80
(2b)	EJECT	CN2421	⇔	FRONT FPC	–	12
(2c)	AUDIO	CN202	⇔	SHOE ASSY	–	16
(2d)	AUDIO	CN205	⇔	LENS SHUTTER	–	10
(2e)	AUDIO	CN204	↔	MICROPHONE	–	3
(2f)	FRONT FPC UNIT	CN2413	⇔	FOCUS RING	–	6
(2g)	FRONT FPC UNIT	CN2412	↔	IR UNIT	–	3
(2g)	FRONT FPC UNIT	CN2411	⇔	MENU SW UNIT	–	6
(3a)	MAIN	CN108	⬌	MONITOR	–	50
(4a)	DSC	CN8401	⬌	MAIN	CN105	120
(4b)	DSC	CN8402	⇔	JACK	CN301	20/45
(5a)	MAIN	CN109	⬌	REG	CN601	80
(6a)	MAIN	CN110	⇔	E.VF(COLOR)	CN501	22
(7a)	MAIN	CN102	⇔	CCD	–	20
(7b)	MAIN	CN101	↔	CCD	–	2
(7c)	MAIN	CN103	↔	OP BLOCK ASSY	–	2
(7d)	MAIN	CN104	⇔	OB BLOCK ASSY	–	39
(8a)	EJECT	CN2422	⇔	MAIN	CN113	13
(8b)	JACK	CN301	⇔	MAIN	CN111	24/45
(9a)	MAIN	CN106	⬌	PRE/MDA	CN401	80
(10a)	PRE/MDA	CN406	⇔	SENSOR	–	16
(10b)	PRE/MDA	CN405	⇔	CAPSTAN .MOTOR	–	18
(10c)	PRE/MDA	CN404	⇔	DRUM MOTOR	–	11
(10d)	PRE/MDA	CN402	⇔	HEAD	–	8
(10e)	PRE/MDA	CN407	⇔	ROTARY ENCODER	–	6
(10f)	PRE/MDA	CN403	⇔	LOADING MOTOR	–	6

Table 1-3-3

NOTE ②a: *Open the cassette cover after removing the screws.*

NOTE ②b: *Be careful not to damage the FPC when unplugging it.*

NOTE ②c: *As the ⑦ OP Block Assembly is exposed as a result of the above steps, be careful not to damage any of its parts. Take particular care not to scratch the lens surfaces.*

NOTE ②d: *When mounting the parts, set the REC MODE switch to "video". Also set the lever to the uppermost position at the same time.*

NOTE ②e: *Treat the microphone wire with care.*

NOTE ②f: *When mounting, be careful not to damage the jacks.*

NOTE ②g: *When mounting, be careful not to damage the switches.*

NOTE ②h: *When mounting, be careful when handling the FPC.*

NOTE ②j: *When mounting, be careful not to damage the boss (stud).*

NOTE ③a/③b: *Be sure to confirm the position of the screws.*

NOTE ③c: *For the disassembly of the ⑫ Monitor Assembly, see section 1.6, "Disassembly/Assembly of ⑫ Monitor Assembly".*

NOTE ④a: *Be careful not to damage the CONNECTOR.*

NOTE ④b: *Handle the peeled-off heat sink carefully because it should be reused in the assembly.*

NOTE ⑥: *For the disassembly of the ⑥ E.VF, see section 1.4, "Disassembly/Assembly of ⑥ E.VF".*

NOTE ⑩a: *The FPC of the loading motor should be mounted by inserting it between the Mechanism Assembly and the PRE/MDA Board Assembly.*

NOTE ⑩b: *When mounting the shield cover, push down the FPC of the drum while attaching it.*

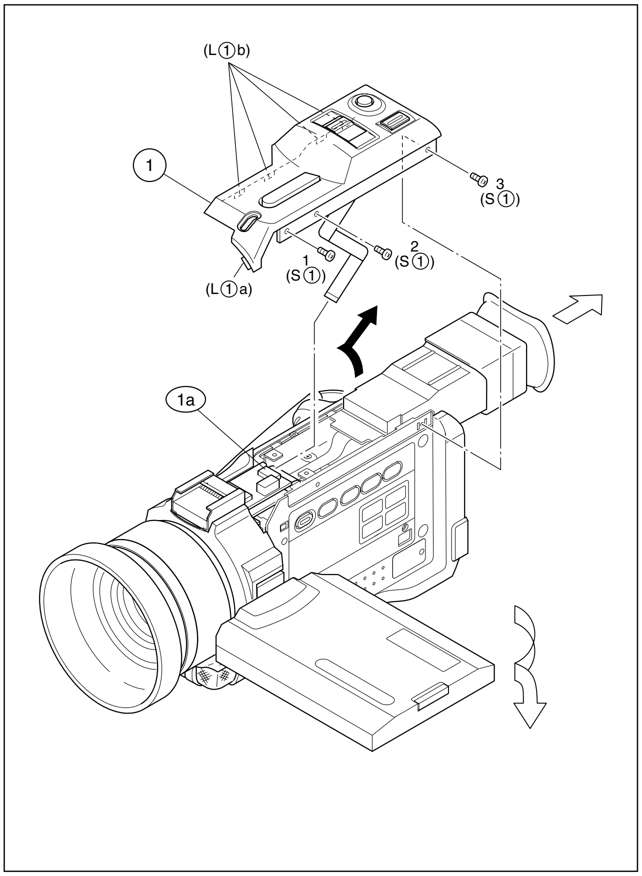

(L①b)
1
3
(S①)
2
(S①)
1
(S①)
(L①a)
1a

Fig. 1-3-1

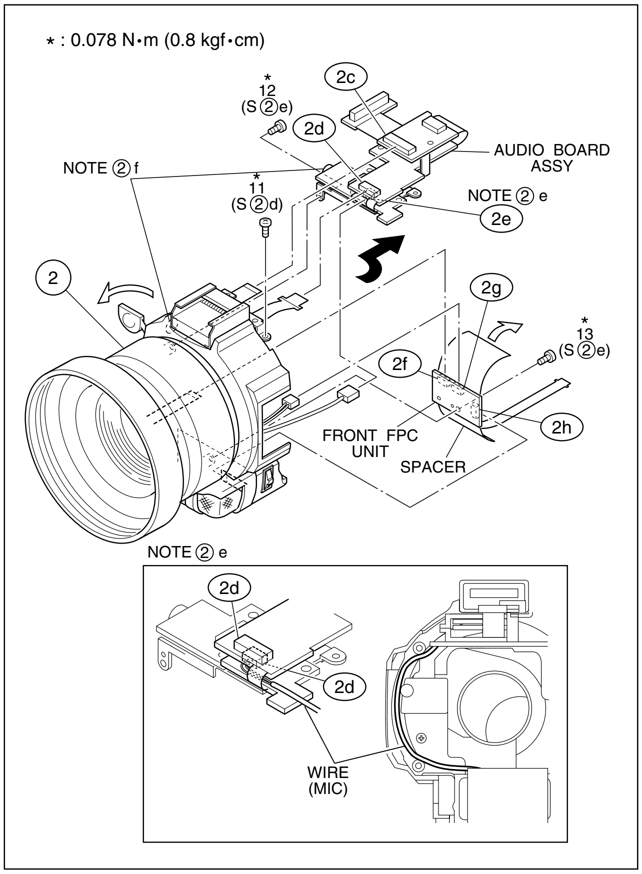

*: 0.078 N•m (0.8 kgf•cm)
*
12
(S②e)
2c
2d
AUDIO BOARD ASSY
NOTE ② f
*
11
(S②d)
NOTE ② e
2e
2
2g
*
13
(S②e)
2f
FRONT FPC UNIT
2h
SPACER
NOTE ② e
2d
2d
WIRE (MIC)

Fig. 1-3-2b

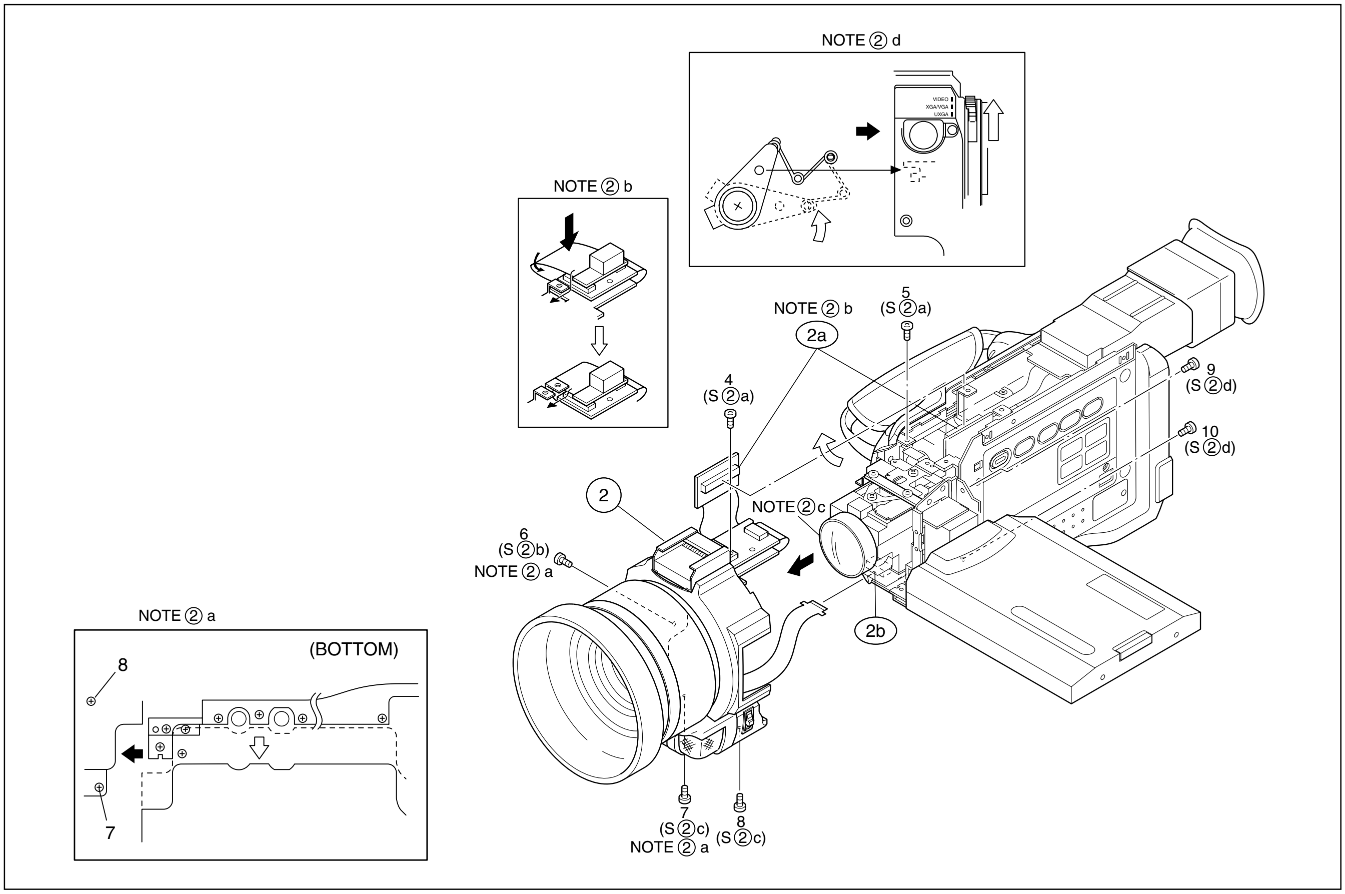

NOTE ② d
VIDEO
XGA/VGA
UXGA
NOTE ② b
NOTE ② b
5
(S②a)
2a
4
(S②a)
9
(S②d)
10
(S②d)
2
NOTE②c
6
(S②b)
NOTE ② a
2b
NOTE ② a
(BOTTOM)
8
7
7
(S②c)
NOTE ② a
8
(S②c)

Fig. 1-3-2a

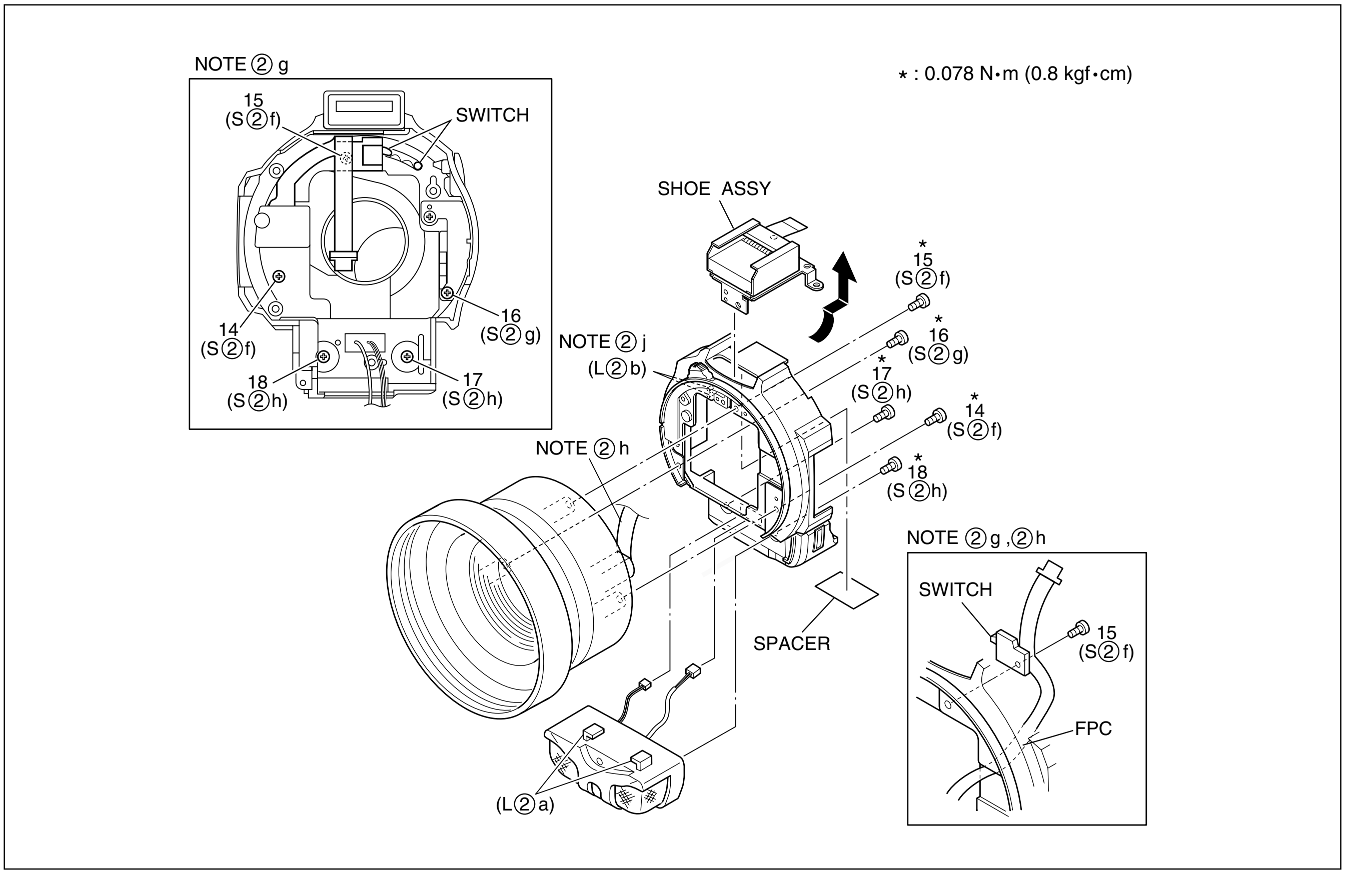

NOTE ② g
15
(S②f)
SWITCH
14
(S②f)
16
(S② g)
18
(S②h)
17
(S②h)
* : 0.078 N•m (0.8 kgf•cm)
SHOE ASSY
*
15
(S②f)
*
16
(S②g)
NOTE ② j
(L②b)
*
17
(S②h)
*
14
(S②f)
NOTE ② h
*
18
(S②h)
NOTE ②g ,②h
SWITCH
15
(S② f)
SPACER
FPC
(L②a)

Fig. 1-3-2c

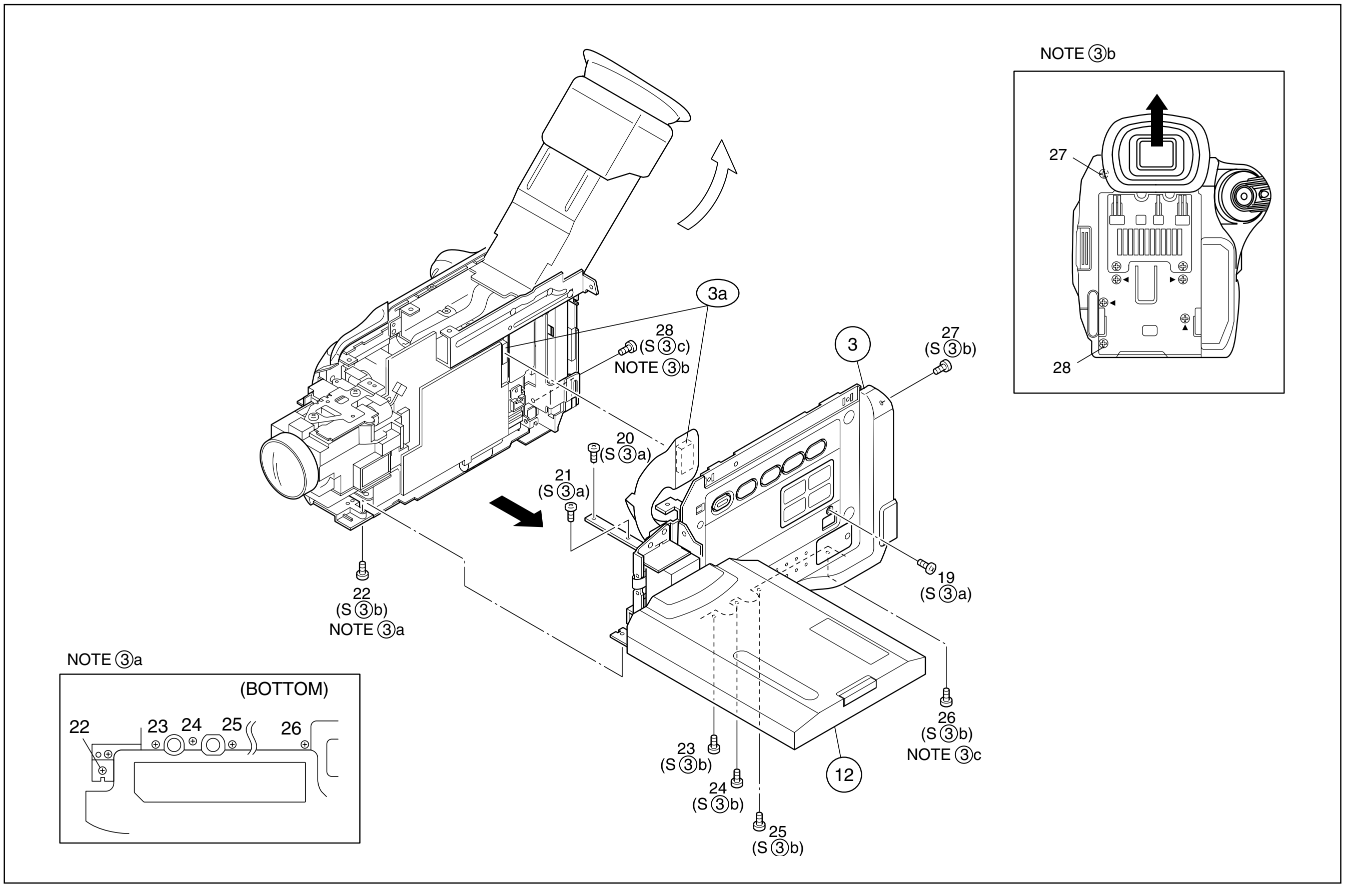

NOTE ③b
27
28
3a
28
(S③c)
NOTE ③b
3
27
(S③b)
20
(S③a)
21
(S③a)
19
(S③a)
22
(S③b)
NOTE ③a
NOTE ③a
(BOTTOM)
22
23
24
25
26
26
(S③b)
NOTE ③c
23
(S③b)
24
(S③b)
12
25
(S③b)

Fig. 1-3-3

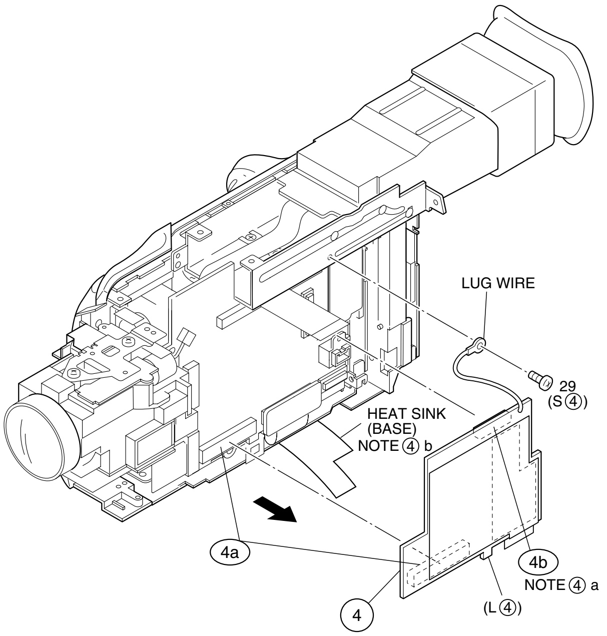

LUG WIRE
29
(S④)
HEAT SINK
(BASE)
NOTE ④ b
4a
4b
NOTE ④ a
(L④)
4

Fig. 1-3-4

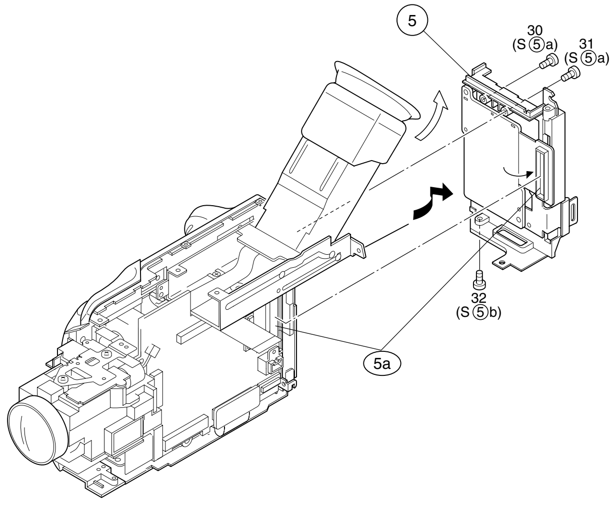

5
30
(S⑤a)
31
(S⑤a)
32
(S⑤b)
5a

Fig. 1-3-5

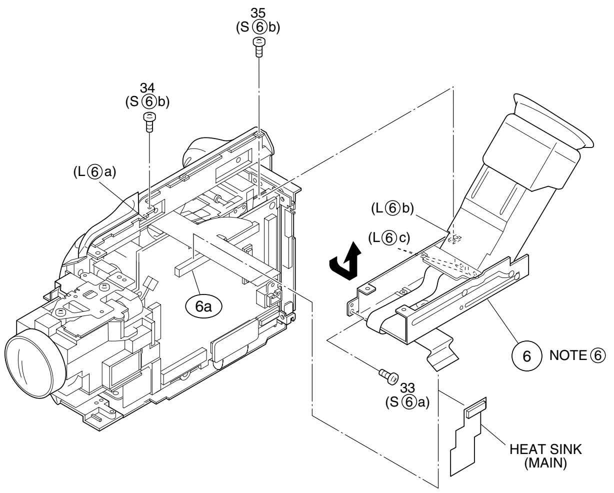

35
(S⑥b)
34
(S⑥b)
(L⑥a)
(L⑥b)
(L⑥c)
6a
6
NOTE ⑥
33
(S⑥a)
HEAT SINK
(MAIN)

Fig. 1-3-6

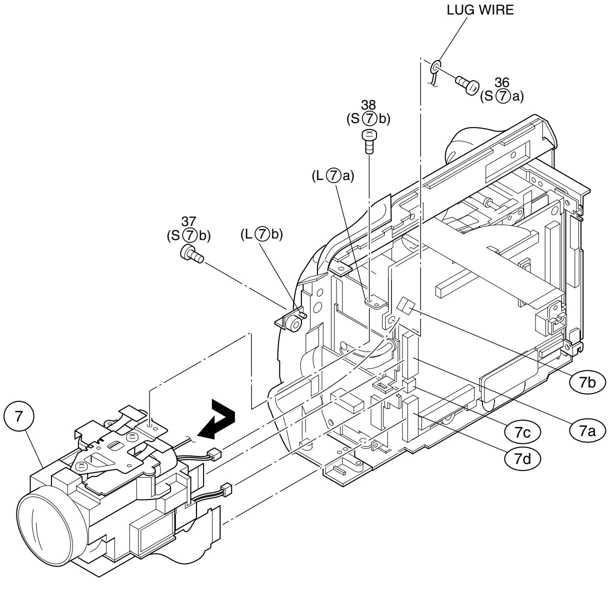

LUG WIRE
36
(S⑦a)
38
(S⑦b)
(L⑦a)
37
(S⑦b)
(L⑦b)
7b
7
7c
7a
7d

Fig. 1-3-7

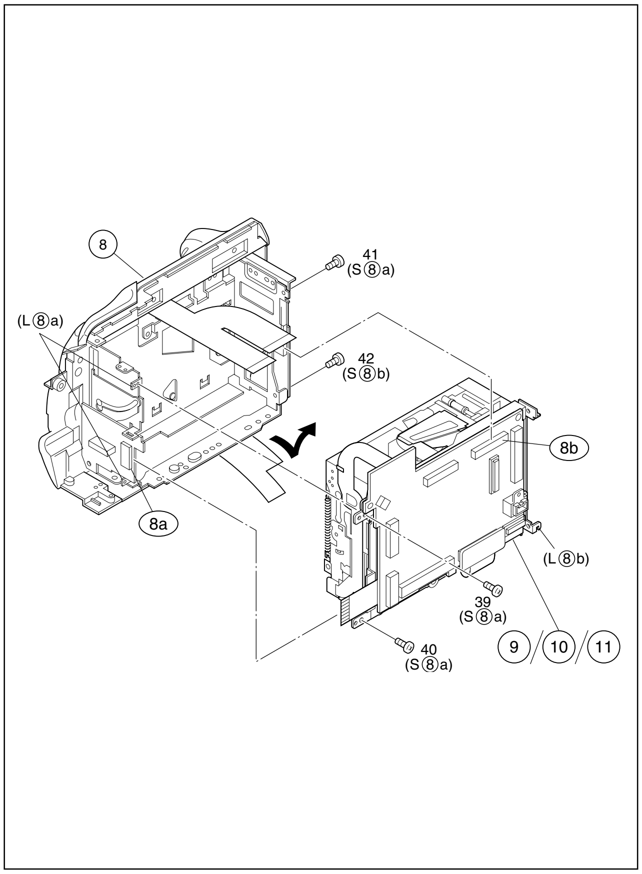

8
41
(S⑧a)
(L⑧a)
42
(S⑧b)
8b
8a
(L⑧b)
39
(S⑧a)
40
(S⑧a)
9
10
11

Fig. 1-3-8

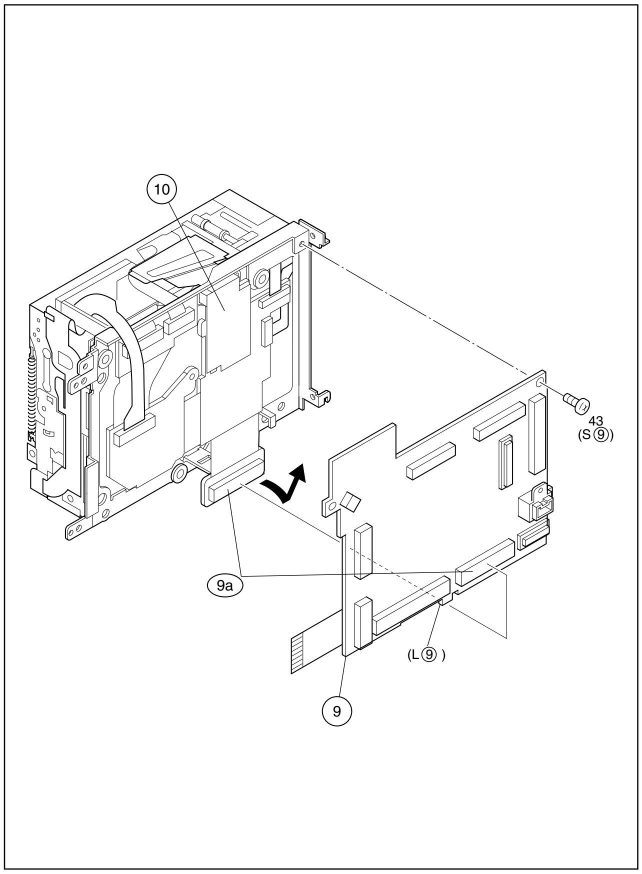

10
43
(S⑨)
9a
(L⑨)
9

Fig. 1-3-9

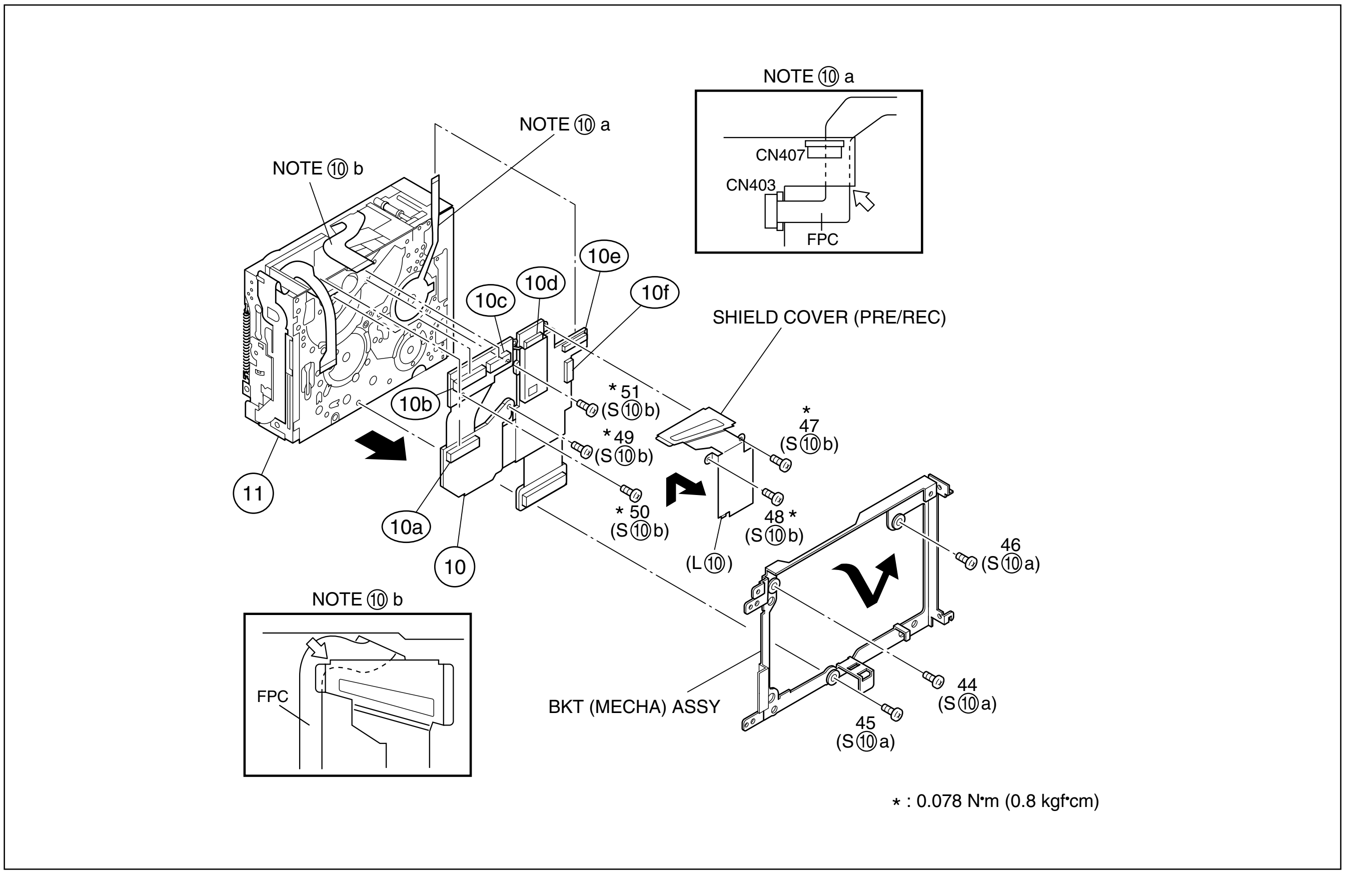

NOTE ⑩ a
CN407
CN403
FPC
NOTE ⑩ a
NOTE ⑩ b
10e
10d
10f
10c
SHIELD COVER (PRE/REC)
10b
* 51
(S⑩b)
* 49
(S⑩b)
*
47
(S⑩b)
11
* 50
(S⑩b)
48 *
(S⑩b)
10a
(L⑩)
46
(S⑩a)
10
NOTE ⑩ b
FPC
BKT (MECHA) ASSY
44
(S⑩a)
45
(S⑩a)
* : 0.078 N•m (0.8 kgf•cm)

Fig. 1-3-10

1.4 ⑥ E.VF(COLOR)

1.4.1. Disassembly/Assembly of the ⑥ E.VF(COLOR)

1. Remove the 2 screws (1 and 2) and then remove the EYE CAP.
2. Remove the 2 screws (3 and 4).
3. Pull out the VF assembly and them remove the 4 screws (5 to 8) to release the FPC ASSY.
4. Remove the 2 screws (9 and 10) then lift the E.VF from the BRACKET (VF) ASSY and take out the FPC ASSY.

   Note⑥a : *Be careful not to disconnect or break the FPC ASSY wire.*

5. Remove the 2 screws (11 and 12) to remove the UPPER CASE ASSY.

   Note⑥b : *Be careful not to lose any of the parts.*

6. Remove the LCD UNIT from the BOTTOM CASE ASSY.

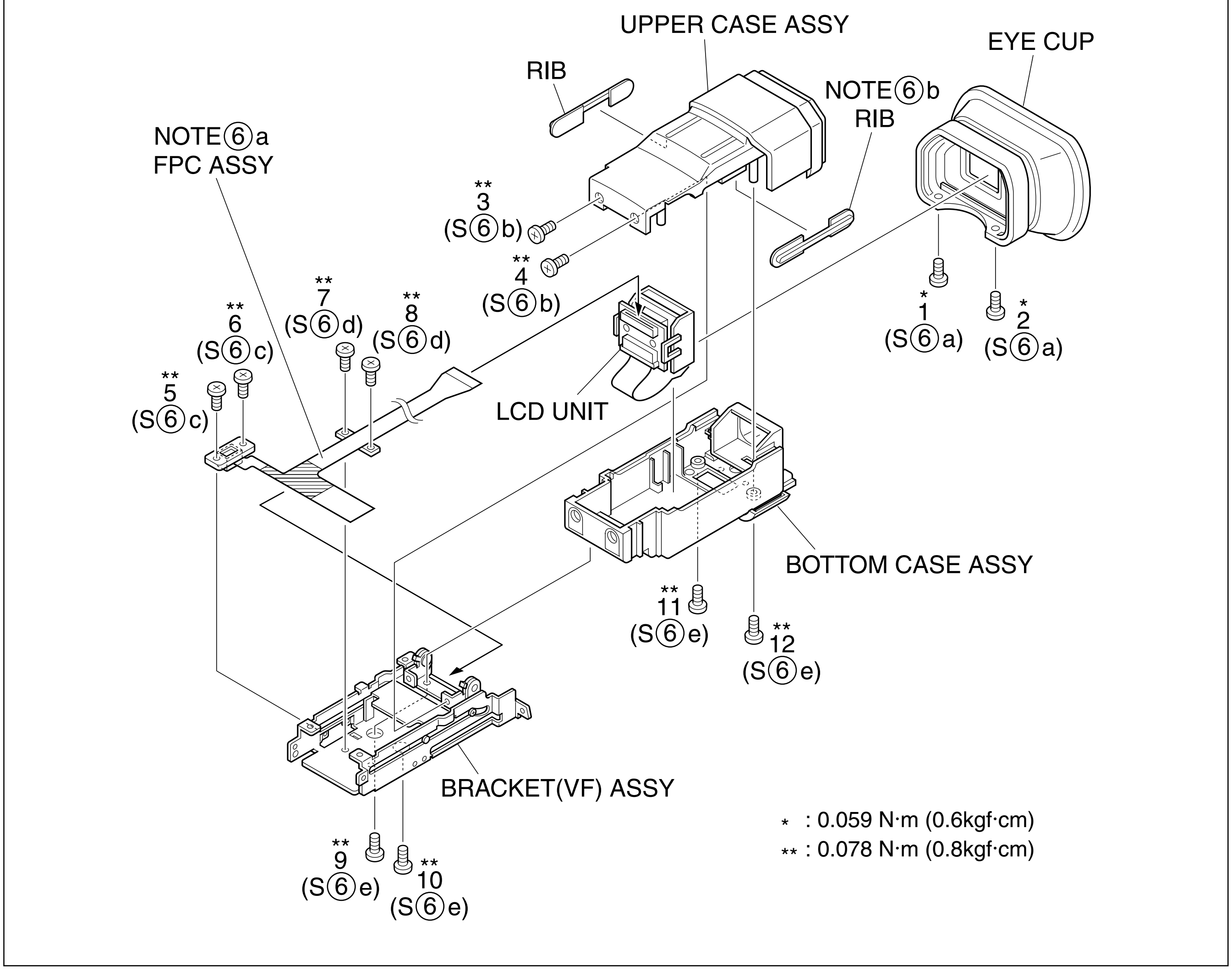

UPPER CASE ASSY
EYE CUP
RIB
NOTE⑥b
RIB
NOTE⑥a
FPC ASSY
** 3 (S⑥b)
** 4 (S⑥b)
* 1 (S⑥a)
* 2 (S⑥a)
** 7 (S⑥d)
** 8 (S⑥d)
** 6 (S⑥c)
** 5 (S⑥c)
LCD UNIT
BOTTOM CASE ASSY
** 11 (S⑥e)
** 12 (S⑥e)
BRACKET(VF) ASSY
** 9 (S⑥e)
** 10 (S⑥e)
* : 0.059 N·m (0.6kgf·cm)
** : 0.078 N·m (0.8kgf·cm)

Fig. 1-4-1

1.5 DISASSEMBLY OF THE ⑦ OP BLOCK AND CCD BOARD ASSEMBLIES

1.5.1 Precautions

1. Take care in handling the CCD image sensor, optical LPF and lens components when performing maintenance etc., especially with regard to surface contamination, attached dust or scratching. If fingerprints are present on the surface they should be wiped away using either a silicon paper, clean chamois or the cleaning cloth recommended by the Video Product Division.
2. The CCD image sensor may have been shipped with a protective sheet attached to the transmitting glass. When replacing the CCD image sensor, do not peel off this sheet from the new part until immediately before it is mounted in the OP Block Assembly.

1.5.2 How to remove

1. Remove the solder (SD1) from the 16 soldered points on the CCD Board Assembly and take the assembly out.
2. Remove the two screws (1, 2) and take out the CCD Base Assembly.

Note ⑦a: *When removing the CCD Base Assembly, be careful not to take out the CCD image sensor together with the spacer rubbers attached to it.*

Note ⑦b: *The CCD image sensor should not be replaced as a single part but should be replaced together with the entire CCD Base Assembly.*

1.5.3 How to install

1. With the spacer rubbers attached to the CCD base, mount the CCD base in the OP Block Assembly and tighten them together using the two screws (1, 2).
2. Mount the CCD Board Assembly and attach solder to the 16 points (SD1).

1.5.4 Replacement of Service Repair Parts

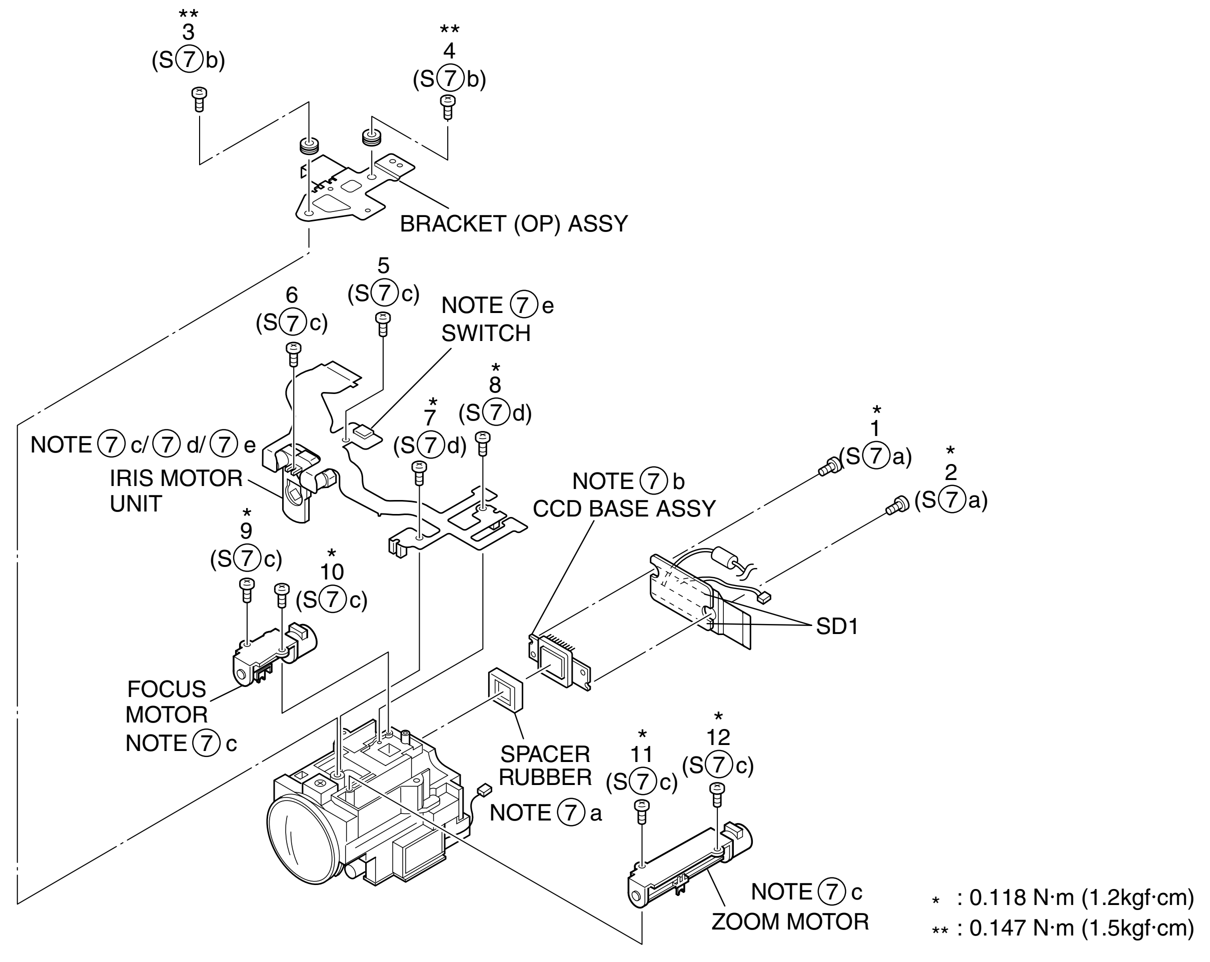
The service repair parts for the OP Block Assembly are as listed below.
Before replacement of these parts, remove the bracket (OP assyembly) as required.
Take special care not to disconnect any of the FPC wires or cause any damage due to soldering (excessive heating).

1. Focusing motor
2. Zoom motor
3. Iris motor unit

Note ⑦c: *When replacing the focusing motor or the zoom motor, solder the FPC at a space of about 1 mm above the terminal pin.*

Note ⑦d: *The iris motor unit includes the FPC Assembly, switch and two sensors.*

Note ⑦e: *Be careful not to damage the switch.*



**
3
(S⑦b)
**
4
(S⑦b)
BRACKET (OP) ASSY
5
(S⑦c)
6
(S⑦c)
NOTE ⑦e
SWITCH
*
8
(S⑦d)
*
7
(S⑦d)
NOTE ⑦c/⑦d/⑦e
IRIS MOTOR
UNIT
*
1
(S⑦a)
*
2
(S⑦a)
NOTE ⑦b
CCD BASE ASSY
*
9
(S⑦c)
*
10
(S⑦c)
SD1
FOCUS
MOTOR
NOTE ⑦c
SPACER
RUBBER
NOTE ⑦a
*
11
(S⑦c)
*
12
(S⑦c)
NOTE ⑦c
ZOOM MOTOR
* : 0.118 N·m (1.2kgf·cm)
** : 0.147 N·m (1.5kgf·cm)

Fig. 1-5-1

1.6 DISASSEMBLY/ASSEMBLY OF THE ⑫ MONITOR ASSEMBLY

1.6.1 ⑫ Monitor Assembly and Hinge Assembly

1. Remove the four screws (1 to 4), disengage the four hooks (L⑫ a to d) in order, and take out the Monitor Cover Assembly.
2. Unlock the connector (12a) and, while lifting the Hinge Assembly, unplug and take out the FPC.
3. Remove the screw (5) and take out the bracket (MONITOR CASE).
4. Unplug the FPC from the connector (12b) and take out the Monitor Board Assembly and the backlight.
5. Remove the LCD module by disengaging the five hooks (L⑫ e to j).
6. Remove the two screws (6, 7) and take out the hinge covers (U, L) by disengaging the four hooks (L⑫ k, l) at both sides of each of the hinge covers.
7. Remove the FPC Assembly from the Hinge Assembly.

Note ⑫a: *Don't reuse the screw, because screw lock bond was applied to them.*

Note ⑫b: *Be careful not to damage the FPC or the connector when removing the Monitor Cover Assembly.*

Note ⑫c: *Be careful not to damage the parts when removing or mounting the Hinge Assembly.*

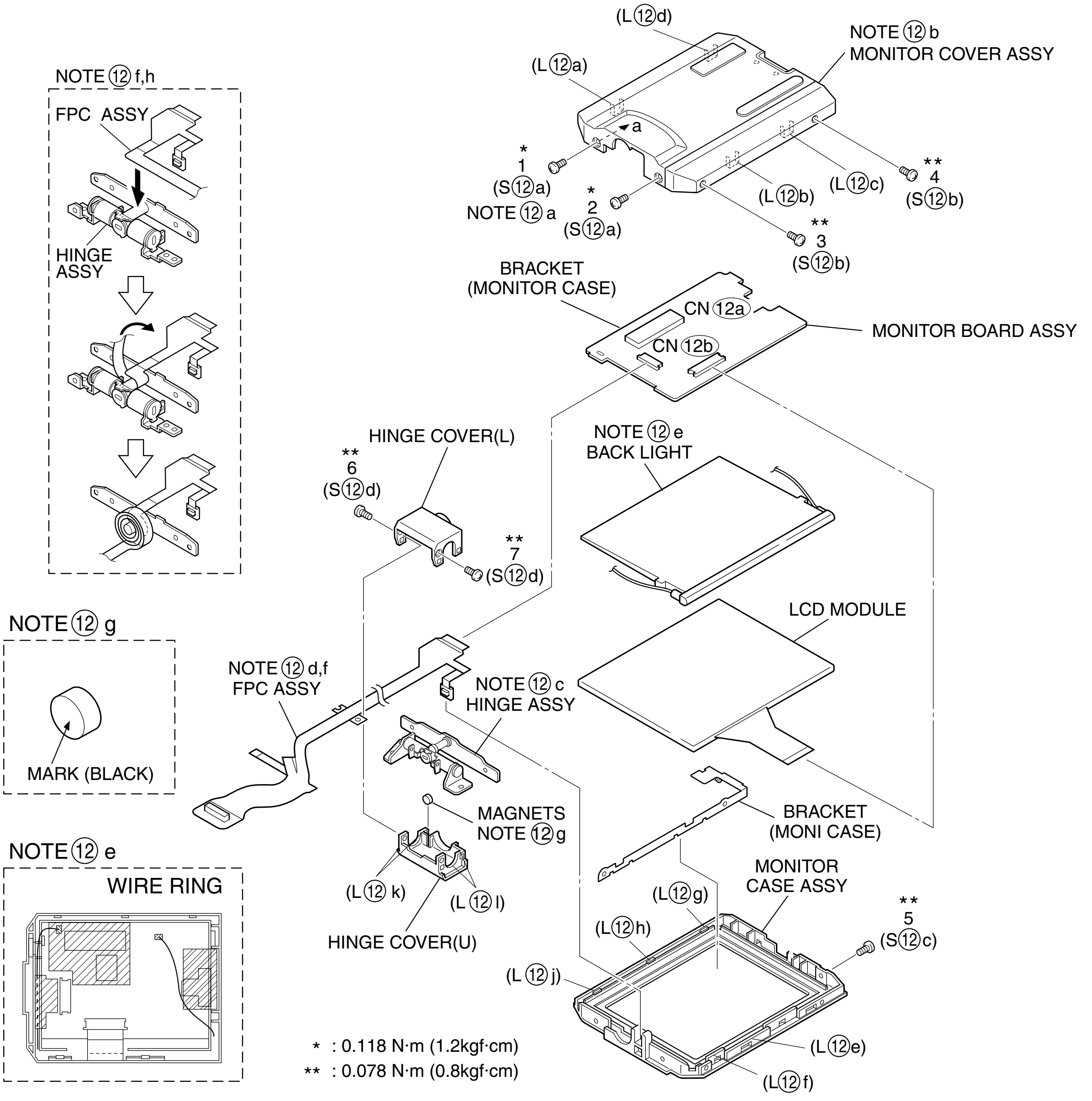
Note ⑫d: *To unplug the FPC, release only the lock of the connector and remove the FPC together with the Hinge Assembly.*

Note ⑫e: *As the backlight is soldered at two points on the Monitor Board Assembly, the solder should be removed when disassembling the backlight as a single part.*

Note ⑫f: *Take care when handling the FPC.*

Note ⑫g: *Be careful not to lose the magnets and attach them in the correct orientation.*

Note ⑫h: *When mounting the FPC Assembly, wrap it around the Hinge Assembly by 3-1/2 turns.*



(L⑫d)
NOTE ⑫ b
MONITOR COVER ASSY
(L⑫a)
a
NOTE ⑫ f,h
FPC ASSY
HINGE ASSY
*
1
(S⑫a)
NOTE ⑫ a
*
2
(S⑫a)
(L⑫b)
(L⑫c)
**
4
(S⑫b)
**
3
(S⑫b)
BRACKET
(MONITOR CASE)
CN 12a
CN 12b
MONITOR BOARD ASSY
HINGE COVER(L)
**
6
(S⑫d)
**
7
(S⑫d)
NOTE ⑫ e
BACK LIGHT
NOTE ⑫ g
LCD MODULE
NOTE ⑫ d,f
FPC ASSY
NOTE ⑫ c
HINGE ASSY
MARK (BLACK)
MAGNETS
NOTE ⑫ g
BRACKET
(MONI CASE)
NOTE ⑫ e
WIRE RING
MONITOR
CASE ASSY
**
5
(S⑫c)
(L ⑫ k)
(L ⑫ l)
(L⑫g)
(L⑫h)
HINGE COVER(U)
(L ⑫ j)
* : 0.118 N·m (1.2kgf·cm)
** : 0.078 N·m (0.8kgf·cm)
(L⑫e)
(L⑫ f)

Fig. 1-6-1

1.7 MANUAL EJECTION OF THE CASSETTE TAPE

Note: *The following procedure describes a simplified method of ejecting the cassette tape in case it is not possible to eject it, due to an electrical failure.*

Be careful not to damage any of the parts or the tape when performing repairs or maintenance work.

1. Remove the Power Unit (battery, DC code, etc.) from the main unit.
2. Open the cassette cover.
3. Attach a piece of PVC tape at the front of the cassette housing.

Note: *This helps prevent the tape from being damaged when the Cassette Housing Assembly is moved upward at the unloading end.*

4. In order to change the mechanism mode at the unloading end apply 3 V, DC to the electrode on the top surface of the Loading Motor Assembly and then set it to the eject mode.
5. If there is any slack tape in the tape transport system, wind it inside the cassette tape by turning the Supply Reel Disk from the backside of the Slide Deck Assembly.
6. Peel off the PVC tape and take out the cassette tape from the cassette housing.

Note: *Make sure that grease or a similar substance is not attached to the surface of the tape.*
Similarly, also make sure that grease or a similar substance is not attached on the Mechanism Assembly.

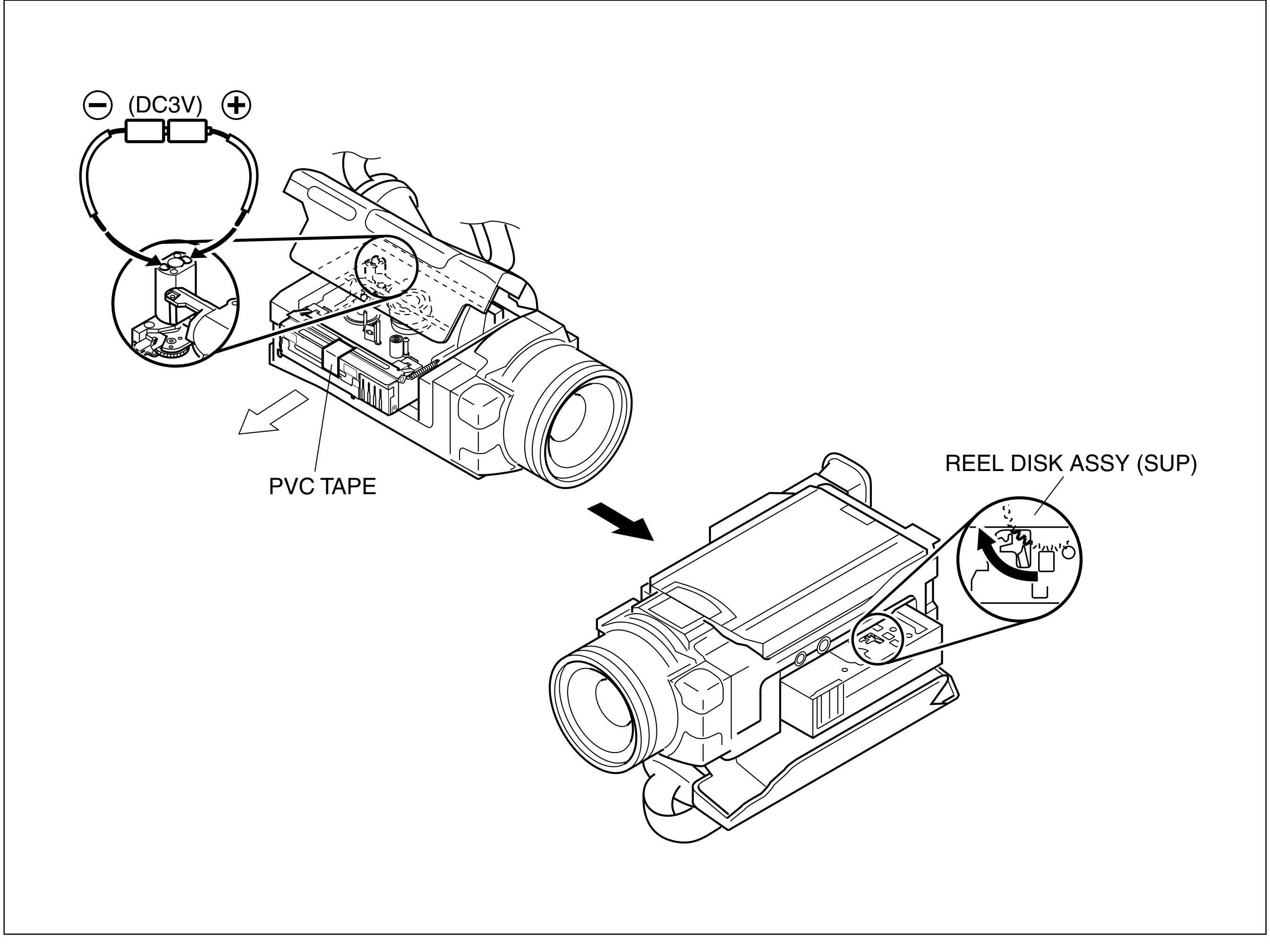


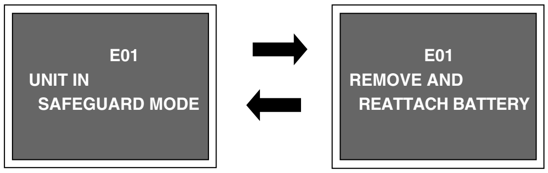
Fig. 1-7-1

1.8 EMERGENCY DISPLAY

Whenever some abnormal signal is input to the syscon CPU, an error number (E01, as an example) is displayed on the LCD monitor or (in the electronic view finder).
In every error status, such the message as shown below alternately appear over and over.

- In an emergency mode, all operations except turning on/ off the POWER switch are ineffectual.

Example (in case of the error number E01):



E01
UNIT IN
SAFEGUARD MODE

E01
REMOVE AND
REATTACH BATTERY

LCD display	Emergency mode	Details	Possible cause
E01	LOADING	In the case the encoder position is not shifted to the next point though the loading motor has rotated in the loading direction for 4 seconds or more. This error is defined as [E01].	1. The mechanism is locked during mode shift. 2. The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift. 3. No power is supplied to the loading MDA.
E02	UNLOADING	In the case the encoder position is not shifted to the next point though the loading motor has rotated in the unloading direction for 4 seconds or more. This error is defined as [E02].	1. The mechanism is locked during mode shift. 2. The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift.
E03	TU & SUP REEL FG	In the case no REEL FG is produced for 4 seconds or more in the capstan rotation mode after loading was complete, the mechanism mode is shifted to STOP with the pinch roller set off. This error is defined as [E03]. However, no REEL EMG is detected in the SLOW/STILL mode.	1. The idler gear does not engage with the reel disk well. 2. Though the idler gear and reel disk are engaged with each other, the tape is not wound because of overload to the mechanism. 3. No FG pulse is output from the reel sensor. 4. No power is supplied to the reel sensor. 5. Tape transport operation takes place with a cassette having no tape inside. 6. The tape slackens and no pulse is produced until the slack is taken up and the tape comes into the normal status.
E04	DRUM FG	In the case there is no DRUM FG input in the drum rotation mode for 4 seconds or more. This error is defined as [E04], and the mechanism mode is shifted to STOP with the pinch roller set off.	1. The drum cannot be started or drum rotation is stopped because tape transport load is too high. 1) Tape tension is extremely high. 2) The tape is damaged or soiled with grease, etc. 2. The DRUM FG signal is not received by the syscon CPU. 1) Disconnection in the middle of the signal line. 2) Failure of the DRUM FG pulse generator (hall element). 3. No drum control voltage is supplied to the MDA. 4. No power is supplied to the DRUM MDA.
E05	–	–	–
E06	CAPSTAN FG	In the case no CAPSTAN FG is produced in the capstan rotation mode for 2 seconds or more. This error is defined as [E06], and the mechanism mode is shifted to STOP with the pinch roller set off. However, no CAPSTAN EMG is detected in the STILL/FF/REW mode.	1. The CAPSTAN FG signal is not received by the syscon CPU. 1) Disconnection in the middle of the signal line. 2) Failure of the CAPSTAN FG pulse generator (MR element). 2. No capstan control voltage is supplied to the MDA. 3. No power is supplied to the CAPSTAN MDA. 4. The capstan cannot be started or capstan rotation is stopped because tape transport load is too high. 1) Tape tension is extremely high. (Mechanical locking) 2) The tape is damaged or soiled with grease, etc. (Tape tangling occurs, etc.)

(DVC_03)

Table 1-8-1

1.9 SERVICE NOTE

Symbol No. →	①			②														
Removing order of screw →	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Place to stick screw →	∗	∗	∗	∗	∗						∗	∗	∗					
Reference drawing →	Fig. 1-3-1			Fig. 1-3-2a							Fig. 1-3-2b			Fig. 1-3-2c				
Screw tightening torque →	I			I							II							

Symbol No. →	③										④	⑤			⑥		
Removing order of screw →	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Place to stick screw →	∗	∗	∗													∗	∗
Reference drawing →	Fig. 1-3-3										Fig. 1-3-4	Fig. 1-3-5			Fig. 1-3-6		
Screw tightening torque →	I										I	I			I		

Symbol No. →	⑦			⑧				⑨	⑩							
Removing order of screw →	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
Place to stick screw →		∗	∗													
Reference drawing →	Fig. 1-3-7			Fig. 1-3-8				Fig. 1-3-9	Fig. 1-3-10							
Screw tightening torque →	I			I				I	I			II				

Symbol No. →	⑥ VF UNIT											
Removing order of screw →	1	2	3	4	5	6	7	8	9	10	11	12
Place to stick screw →					∗	∗	∗	∗				
Reference drawing →	Fig. 1-4-1											
Screw tightening torque →	III		II									

	⑦ OP BLOCK ASSY											
Removing order of screw →	1	2	3	4	5	6	7	8	9	10	11	12
Place to stick screw →												
Reference drawing →	Fig. 1-5-1											
Screw tightening torque →	IV		V		IV							

	⑫ MONITOR ASSY						
Removing order of screw →	1	2	3	4	5	6	7
Place to stick screw →	∗	∗					
Reference drawing →	Fig. 1-6-1						
Screw tightening torque →	IV		II				

< NOTE >

1) ∗; Don't reuse the screw, because screw lock bond was applied to them.

2) Pay careful attention to tightening torque for each screw.

I : 0.069N·m (0.7kgf·cm)
II : 0.078N·m (0.8kgf·cm)
III : 0.059N·m (0.6kgf·cm)
IV : 0.118N·m (1.2kgf·cm)
V : 0.147N·m (1.5kgf·cm)

Table 1-9-1

SECTION 2
MECHANISM ADJUSTMENT

2.1 PRELIMINARY REMARKS ON ADJUSTMENT AND REPAIR

2.1.1 Precautions

1. When fastening parts, pay careful attention to the tightening torque of each screw. Unless otherwise specified, tighten a screw with the torque of 0.039 N•m (0.4 kgf•cm).
2. Be sure to disconnect the set from the power supply before fastening and soldering parts.
3. When disconnecting/connecting wires, be careful not to get them and their connectors damaged. (Refer to the Section 1.)
4. When replacing parts, be very careful neither to damage other parts nor to fit wrong parts by mistake.

2.1.2 Notes on procedure for disassemby/assembly

The disassembling procedure table (Table 2-4-1 on page 2-5,a part of the table is shown below for reference)shows the procedure to disassemble/reassemble mechanism parts.
Carefully read the following explanation before starting actual disassembling/reassembling work. The item numbers (circled numbers)in the following explanation correspond to those appearing under respective columns of the table.

(1) Circled numbers appearing in this column indicate the order to remove parts. When reassembling, follow these numbers in the reverse order. Circled numbers in this column correspond to those appearing in drawings of this section.

(2) This column shows part names corresponding to circled numbers in the left column.

(3) The symbol (T or B)appearing in this column shows the side which the objective part is mounted on.
T =the upper side, B =the lower side

(4) Symbols appearing in this column indicate drawing numbers.
Step Part Name Fig. Point Note Remarks

(5) This column indicates parts and points such as screws, washers,springs,and others to be removed/fitted for disassembling/reassembling the mechanism. Besides such the parts, this column occasionally indicates working points.

P = Spring
W = Washer
S = Screw
* = Lock (L),soldering (SD),shield,connector (CN), etc.

Example • Remove ((W1)=Washer W1.
• **Remove the solder at (SD1)=Point SD1.
• **Disconnect Ⓐ =Connector Ⓐ .

(6) Numbers in this column represent the numbers of notes in the text.For example, “1” means “Note 1”.
(For parts that need phase adjustment after reassembling, refer to “2.6 MECHANISM ADJUSTMENTS”.)

(7) This column indicates required after-disassembling/-reassembling work such as phase adjustment or mechanism adjustment.

NO.	PART NAME		FIG.	POINT	NOTE	REMARKS
①	CASSETTE HOUSING ASSY	T	Fig.2-4-3	3(S①),(L①a)-(L①e)	NOTE①a,b,c,d	ADJUSTMENT
②	UPPER BASE ASSY	T	Fig.2-4-4	(S②),(L②a),(L②b)	NOTE②	
③	DRUM ASSY	T		(S③a),2(S③b)	NOTE③a,b	
④	REEL DISK ASSY(SUP)	T	Fig.2-4-5	(W④)	NOTE④a	
⑤	REEL DISK ASSY(TU)	T		(W⑤)	NOTE⑤	
⑥	REEL COVER ASSY	T		2(W⑥),(S⑥a),2(S⑥b)	NOTE⑥	ADJUSTMENT

(1) (2) (3) (4) (5) (6) (7)

2.2 JIGS AND TOOLS REQUIRED FOR DISASSEMBLY, ASSEMBLY AND ADJUSTMENT

2.2.1 Tools required for adjustments

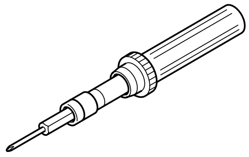
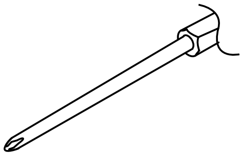
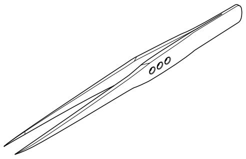
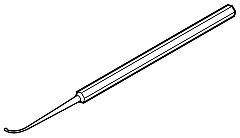
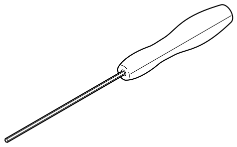
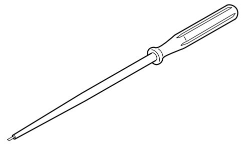
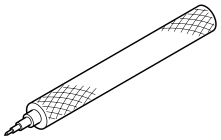
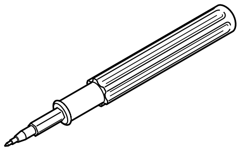
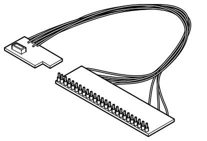
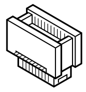
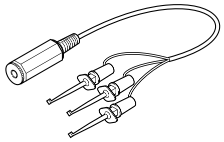
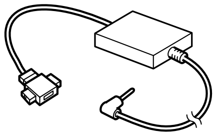
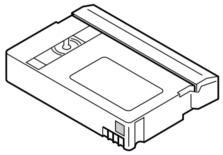
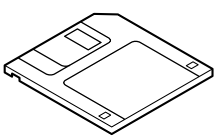
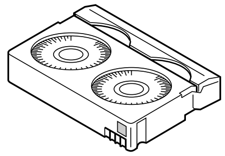
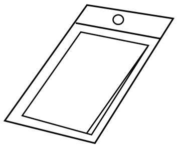
1	Torque Driver YTU94088	2	Bit YTU94088-003
			
3	Tweezers P-895	4	Chip IC Replacement Jig PTS40844-2
			
5	Guide Driver (Hexagonal) D-770-1.27	6	Adjustment Driver YTU94028
			
7	Slit Washer Installation Jig YTU94121A	8	Slit Washer Installation Jig YTU94121B
			
9	Jig Connector cable YTU93106B	10	Extension connector YTU94145C-30
			
11	Communication cable YTU93107A	12	PC cable QAM0099-002
			
13	Alignment Tape MC-2	14	Service Support System YTU94057-50
			
15	Cassette Torque Meter YTU94151A	16	Cleaning Cloth KSMM-01
			

Table 2-2-1

1. **Torque Driver**
   Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
2. **Bit**
   This bit is slightly longer than those set in conventional torque drivers.
3. **Tweezers**
   To be used for removing and installing parts and wires.
4. **Chip IC Replacement Jig**
   To be used for adjustment of the camera system.
5. **Guide Driver (Hexagonal)**
   To be used to turn the guide roller to adjustment of the linarity of playback envelope.
6. **Adjustment Driver**
   To be used for adjustment.
7. **Slit Washer Installation Jig**
   To be used to install slit washers.
8. **Slit Washer Installation Jig (NEW TYPE)**
   To be used to install slit washers.
9. **Jig Connector Cable**
   Connected to CN107 of the main board and used for electrical adjustment, etc.
10. **Extension Connector**
    Connect this extension connector to the connector of the jig connector cable for extending the cable connector.

    Note: *For supplying the power through the coupler by removing the cover (for jig), use this extension connector double for connecting the jig connector cable.*
11. **Communication Cable**
    Connect the Communication cable between the PC cable and Jig connector cable when performing a PC adjustment.
12. **PC Cable**
    To be used to connect the VideoMovie and a personal computer with each other when a personal computer is used for adjustment.
13. **Alignment Tape**
    To be used for check and adjustment of interchangeability of the mechanism.
14. **Service Support System**
    To be used for adjustment with a personal computer.
15. **Cassette Torque Meter**
    This is used to cheek the back tension and play torque during mechanism adjustment.

    Note: *When using the cassette torque meter, install the service support system software in advance.*
    - *LED : Forced to ON*
    - *EJECT SW : OFF (Cancel)*

    The above setting is required to prevent any tape damage that may occur because the cassette torque meter cannot detect the leading/trailing sections of the tape.
16. **Cleaning Cloth**
    Recommended cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.

2.3 DISASSEMBLY/ASSEMBLY OF MECHANISM ASSEMBLY

2.3.1 General statement

The mechanism should generally be disassembled/assembled in the C.IN mode (ASSEMBLY mode). (Refer to Fig. 2-3-1,2.)
However, when the mechanism is removed from the main body, it is set in the STOP mode. Therefore, after the mechanism is removed from the main body, supply 3 V DC to the electrode on the top of the loading motor to enter the mechanism mode into the C,IN mode compulsory.

<Mechanism assembly/Cassette housing assembly>

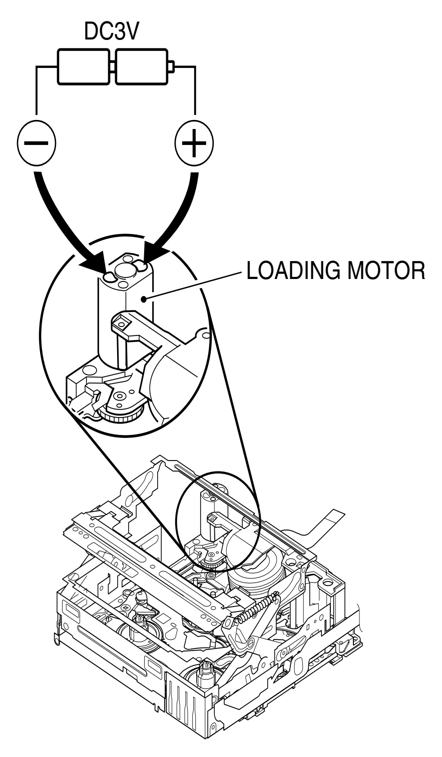


Fig. 2-3-1

<Back side of the mechanism assembly>

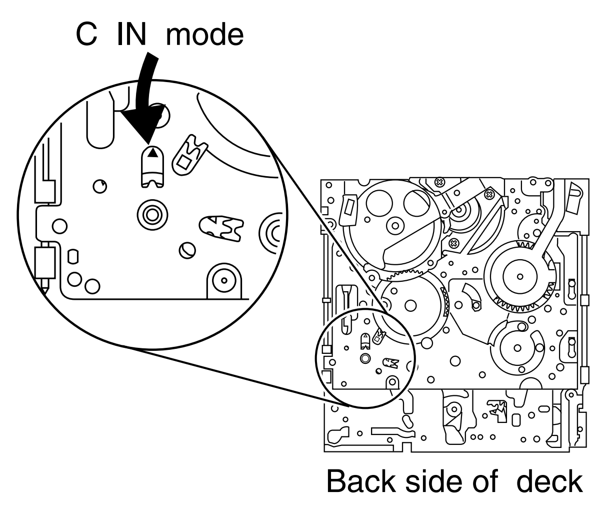


Fig. 2-3-2

2.3.2 Explanation of mechanism mode

The mechanism mode of this model is classified into five modes as shown in Table 2-3-1. Each mechanism mode can be distinguished from others by the relative position of "△", "○", "⬭" "□" marks on the sub cam gear to the inner or outer protrusion on the main deck.
Refer to Fig. 2-3-3 to 2-3-8 below.

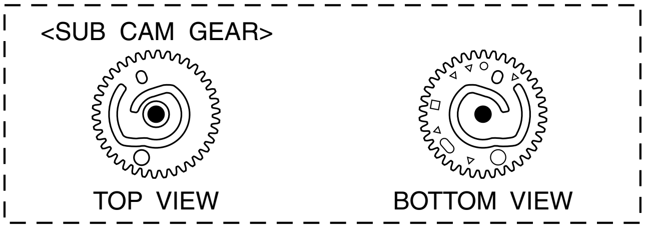


Fig. 2-3-3

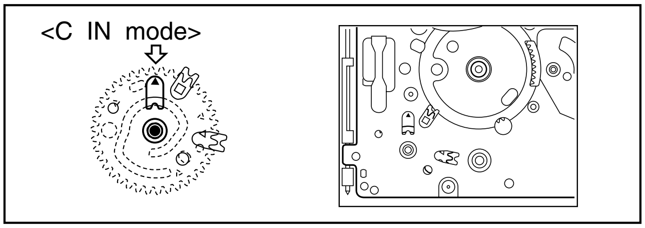


Fig. 2-3-4

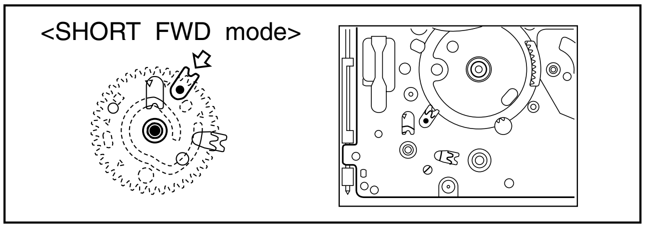


Fig. 2-3-5

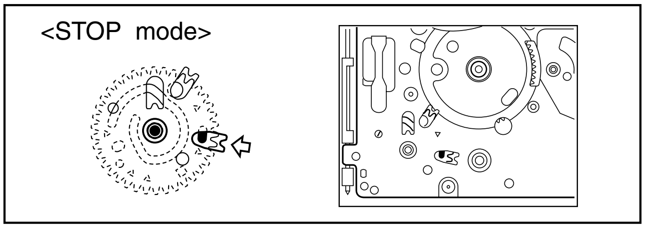


Fig. 2-3-6

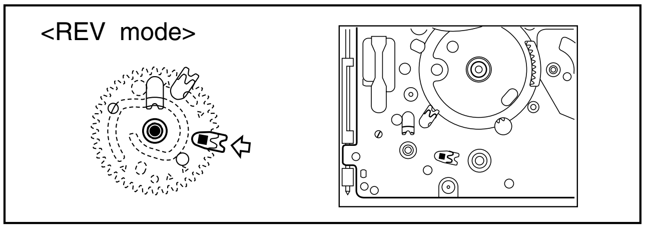


Fig. 2-3-7

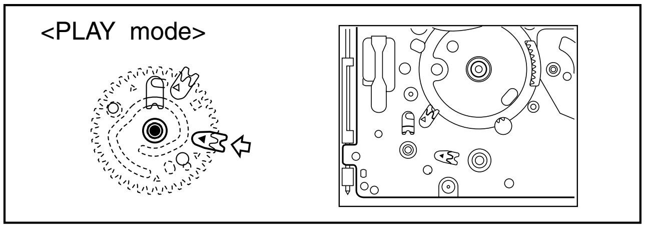


Fig. 2-3-8

2.3.3 Mechanism timing chart

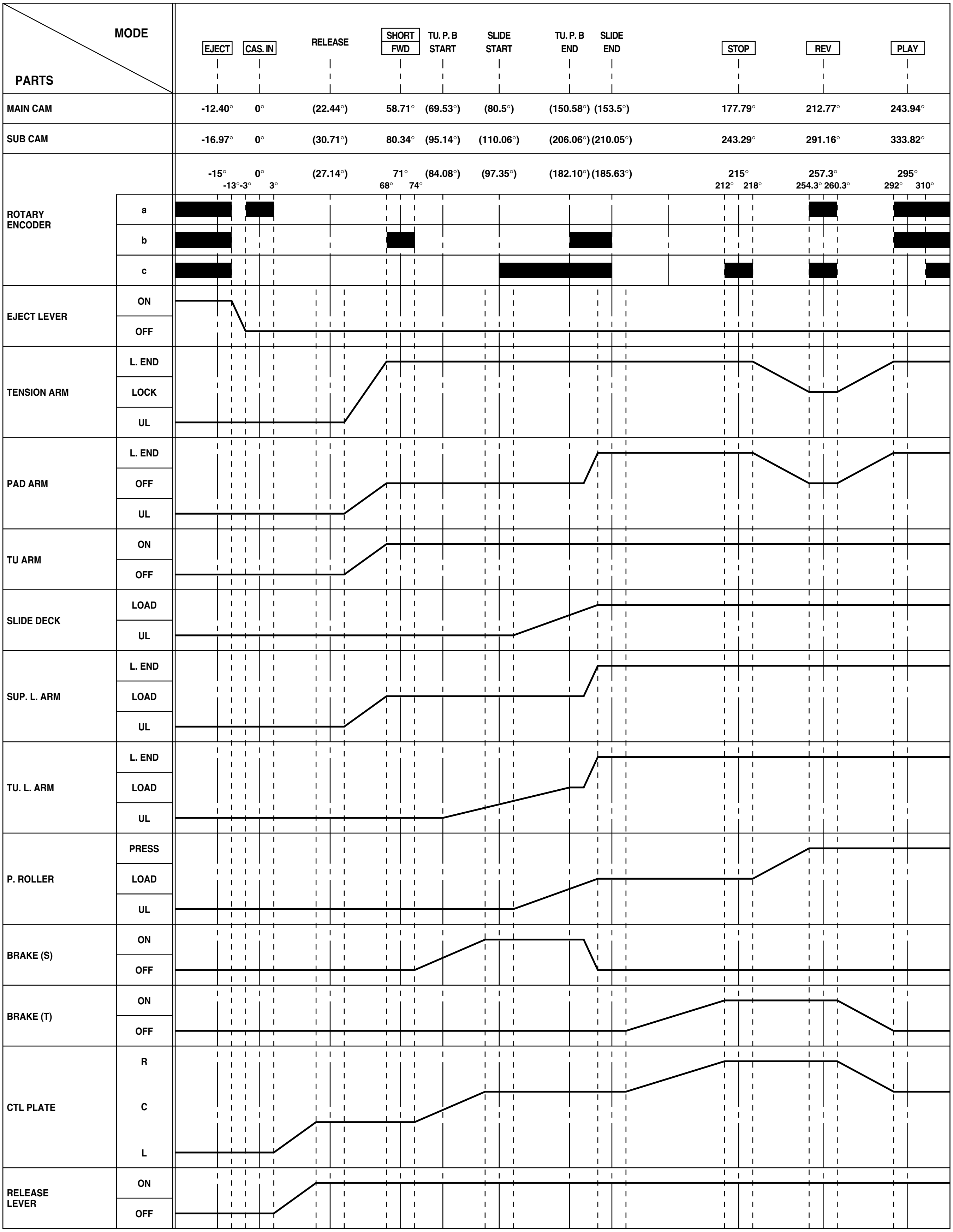

MODE
PARTS
EJECT
CAS. IN
RELEASE
SHORT FWD
TU. P. B START
SLIDE START
TU. P. B END
SLIDE END
STOP
REV
PLAY
MAIN CAM
-12.40°
0°
(22.44°)
58.71°
(69.53°)
(80.5°)
(150.58°)
(153.5°)
177.79°
212.77°
243.94°
SUB CAM
-16.97°
0°
(30.71°)
80.34°
(95.14°)
(110.06°)
(206.06°)
(210.05°)
243.29°
291.16°
333.82°
-15°
0°
(27.14°)
71°
(84.08°)
(97.35°)
(182.10°)
(185.63°)
215°
257.3°
295°
-13°
-3°
3°
68°
74°
212°
218°
254.3°
260.3°
292°
310°
ROTARY ENCODER
a
b
c
EJECT LEVER
ON
OFF
TENSION ARM
L. END
LOCK
UL
PAD ARM
L. END
OFF
UL
TU ARM
ON
OFF
SLIDE DECK
LOAD
UL
SUP. L. ARM
L. END
LOAD
UL
TU. L. ARM
L. END
LOAD
UL
P. ROLLER
PRESS
LOAD
UL
BRAKE (S)
ON
OFF
BRAKE (T)
ON
OFF
CTL PLATE
R
C
L
RELEASE LEVER
ON
OFF

Table 2-3-1

2.4 DISASSEMBLING PROCEDURE TABLE

NO.	PART NAME		FIG.	POINT	NOTE	REMARKS
①	CASSETTE HOUSING ASSY	T	Fig.2-4-3	3(S①),(L①a)-(L①e)	NOTE①a,b,c,d	ADJUSTMENT
②	UPPER BASE ASSY	T	Fig.2-4-4	(S②),(L②a),(L②b)	NOTE②	
③	DRUM ASSY	T		(S③a),2(S③b)	NOTE③a,b	
④	REEL DISK ASSY(SUP)	T	Fig.2-4-5	(W④)	NOTE④	
⑤	REEL DISK ASSY(TU)	T		(W⑤)	NOTE⑤	
⑥	REEL COVER ASSY	T		2(W⑥),(S⑥a),2(S⑥b)	NOTE⑥	ADJUSTMENT
⑦	TENSION ARM ASSY	T	Fig.2-4-6	—	NOTE⑦	ADJUSTMENT / ★
⑧	SLANT POLE ARM ASSY	T		—	NOTE⑧	ADJUSTMENT
⑨	TU ARM ASSY	T		—	NOTE⑨	ADJUSTMENT
⑩	SWING ARM ASSY	T		(S⑩)	NOTE⑩	ADJUSTMENT
⑪	SLIDE DECK ASSY	T	Fig.2-4-7a	(W⑪),2(S⑪a),(S⑪b), 2(L⑪a),2(L⑪b),(L⑪c)	NOTE⑪a,b	ADJUSTMENT / ★
⑫	PAD ARM ASSY	T	Fig.2-4-7b	(P⑫),(L⑫),(W⑫)	NOTE⑫	ADJUSTMENT / ★
⑬	SUP BRAKE ASSY	T		(P⑬),(L⑬),(S⑬)	NOTE⑬	ADJUSTMENT
⑭	TU BRAKE ASSY	T		(P⑭),(L⑭),(W⑭)	NOTE⑭	ADJUSTMENT
⑮	TENSION CTL LEVER ASSY	T	Fig.2-4-8	—	NOTE⑮	ADJUSTMENT
⑯	CENTER GEAR	T		—	NOTE⑯	
⑰	PINCH ROLLER ARM F. ASSY	T		(W⑰)	NOTE⑰	
⑱	TENSION CTL PLATE ASSY	T		—	NOTE⑱	ADJUSTMENT
⑲	BRAKE CTL LEVER ASSY	T		—	NOTE⑲	ADJUSTMENT
⑳	MOTOR BRACKET ASSY	T	Fig.2-4-9	3(S⑳),(L⑳a),2(L⑳b)	NOTE⑳	ADJUSTMENT
㉑	GUIDE RAIL ASSY	T		2(W㉑),(S㉑),2(L㉑a),(L㉑b)	NOTE㉑	ADJUSTMENT
㉒	SLIDE LEVER 2 ASSY	T		—	NOTE㉒	ADJUSTMENT / ★
㉓	LOADING PLATE ASSY	T		(W㉓)	NOTE㉓	ADJUSTMENT
㉔	MODE GEAR	T		—	NOTE㉔	
㉕	EJECT LEVER	T		(W㉕)	NOTE㉕	ADJUSTMENT
㉖	BASE R ASSY	T	Fig.2-4-10	(S㉖a),(S㉖b),2(L㉖)	NOTE㉖	ADJUSTMENT
㉗	ROTARY ENCODER	T		2(S㉗)	NOTE㉗	PHASE ADJUSTMENT
㉘	GEAR COVER ASSY	T		(S㉘a),2(S㉘b)	—	
㉙	MAIN CAM ASSY	T		—	NOTE㉙	PHASE ADJUSTMENT
㉚	SLIDE ARM ASSY	T	Fig.2-4-11	—	NOTE㉚	ADJUSTMENT
㉛	CONNECT GEAR 2	T		—	NOTE㉛	
㉜	SUB CAM ASSY	T		(S㉜)	NOTE㉜	PHASE ADJUSTMENT
㉝	CONTROL ARM ASSY	T		—	NOTE㉝	ADJUSTMENT
㉞	REEL GEAR 1	T		—	NOTE㉞	
㉟ / ㊱	DRUM BASE ASSY/ CAPSTAN MOTOR	T	Fig.2-4-12	3(S㉟)	NOTE㉟a,b	ADJUSTMENT
㊱	CAPSTAN MOTOR	T		(S㊱)	NOTE㊱	ADJUSTMENT
㊲	MAIN DECK ASSY	T		—	—	

MARK: ★ After assembly, perform adjustments.

Table 2-4-1

< TOP VIEW >

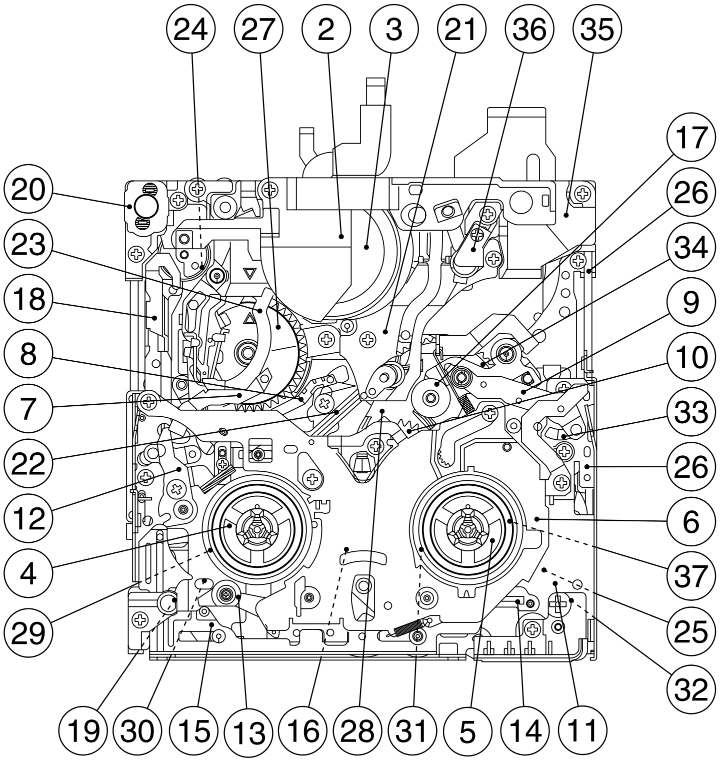

24
27
2
3
21
36
35
17
26
34
9
10
33
26
6
37
25
32
20
23
18
8
7
22
12
4
29
19
30
15
13
16
28
31
5
14
11

Fig. 2-4-1

< BOTTOM VIEW >

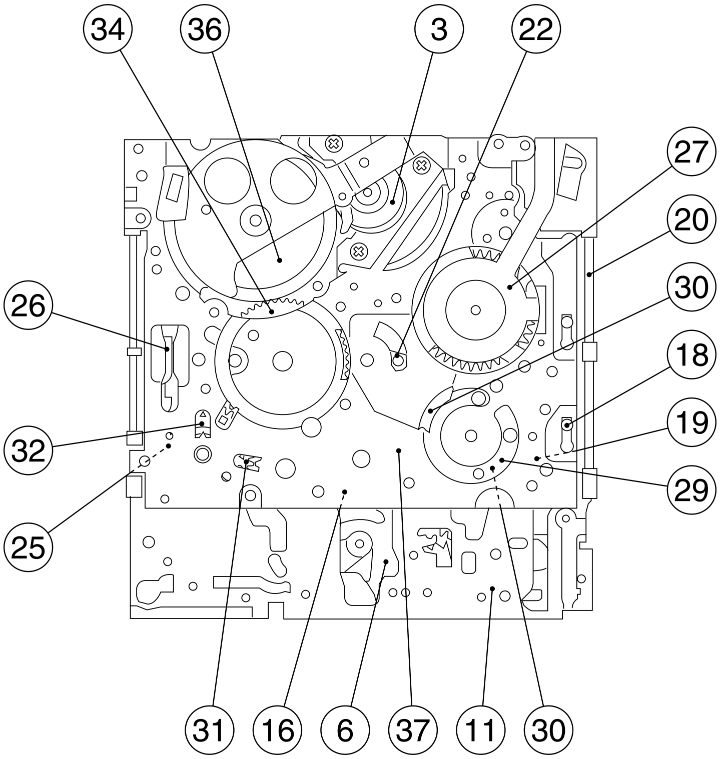

34
36
3
22
27
20
30
18
19
29
26
32
25
31
16
6
37
11
30

Fig. 2-4-2

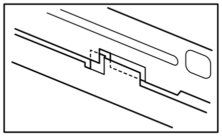
2.4.1 Disassembly/assembly

1. ① CASSETTE HOUSING ASSY

NOTE①a:
Be careful not to damage any of the parts during work.

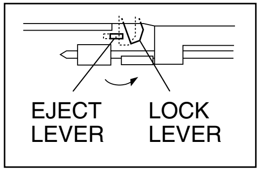
NOTE①b:
Special care is required in mounting.

NOTE①b



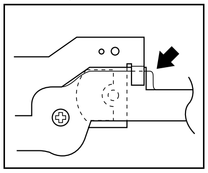
NOTE①c:
When mounting, the CASSETTE HOUSING ASSY should be attached in the Eject status. Pay heed to the positions of the LOCK LEVER and EJECT LEVER during mounting.

NOTE①c


EJECT LEVER
LOCK LEVER

NOTE①d:
When mounting, be sure to locate the FPC in the gap.

NOTE①d



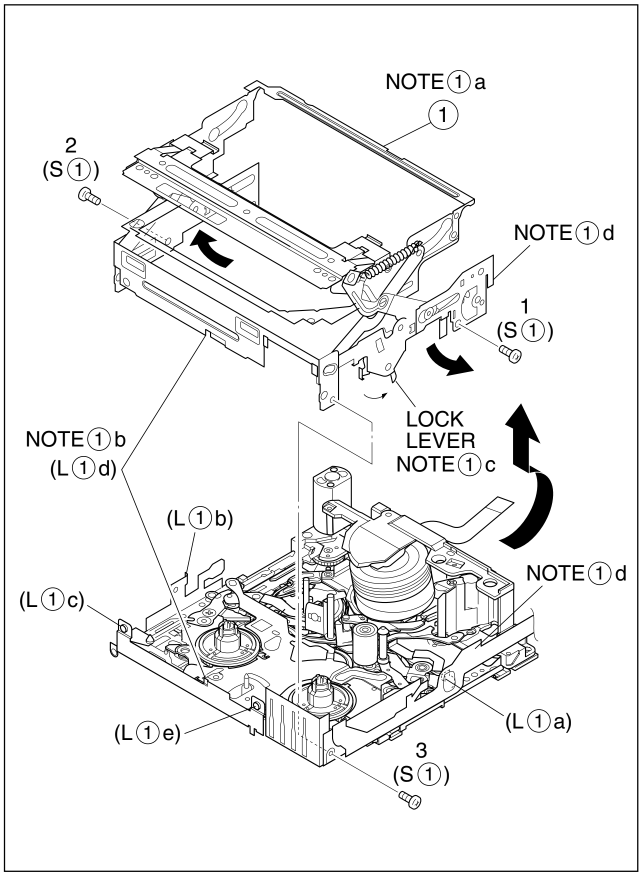
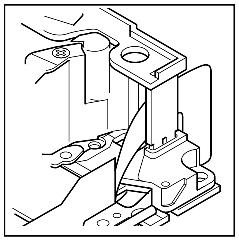

NOTE①a
①
2
(S①)
NOTE①d
1
(S①)
LOCK LEVER
NOTE①c
NOTE①b
(L①d)
(L①b)
NOTE①d
(L①c)
(L①e)
(L①a)
3
(S①)

Fig. 2-4-3

2. ② UPPER BASE ASSY
   ③ DRUM ASSY

NOTE②:
When mounting, be sure to insert the FPC reinforcing sheet.

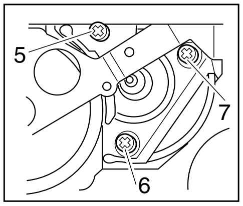
NOTE②



NOTE③a:
Be mindful of scratches or damage during work.

NOTE③b:
Be careful not to attach screws incorrectly.

NOTE③b



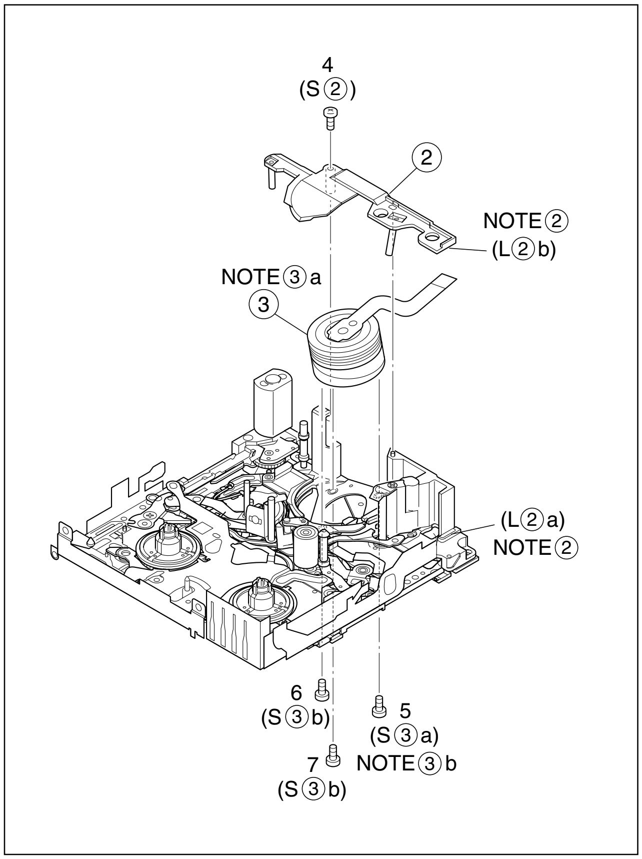

4
(S②)
②
NOTE②
(L②b)
NOTE③a
③
(L②a)
NOTE②
6
(S③b)
5
(S③a)
NOTE③b
7
(S③b)

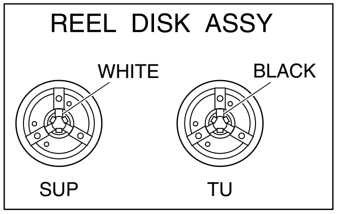
Fig. 2-4-4

3. ④ REEL DISK ASSY(SUP)
   ⑤ REEL DISK ASSY(TU)
   ⑥ REEL COVER ASSY

NOTE④:
Be careful not to attach the REEL DISK wrongly. The Supply side can be identified by the white color at the center.

NOTE⑤:
Be careful not to attach the REEL DISK wrongly. The Take-up side can be identified by the black color at the center.

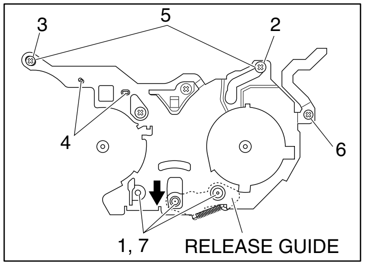
NOTE④,⑤


REEL DISK ASSY
WHITE
BLACK
SUP
TU

NOTE⑥:
Perform the following steps for mounting.

1. *Move the RELEASE GUIDE back and align the 2 holes with the pins.*
2. *Attach the PINCH ROLLER ARM ASSY by aligning the positions.*
3. *Attach the SUB DECK ASSY by aligning the positions.*
4. *Check that the parts below them are located in the correct positions.*
5. *Tighten the 2 screws.*
6. *Tighten the screw.*
7. *Attach the 2 SLIT WASHER parts.*

NOTE⑥


3
5
2
4
6
1, 7
RELEASE GUIDE

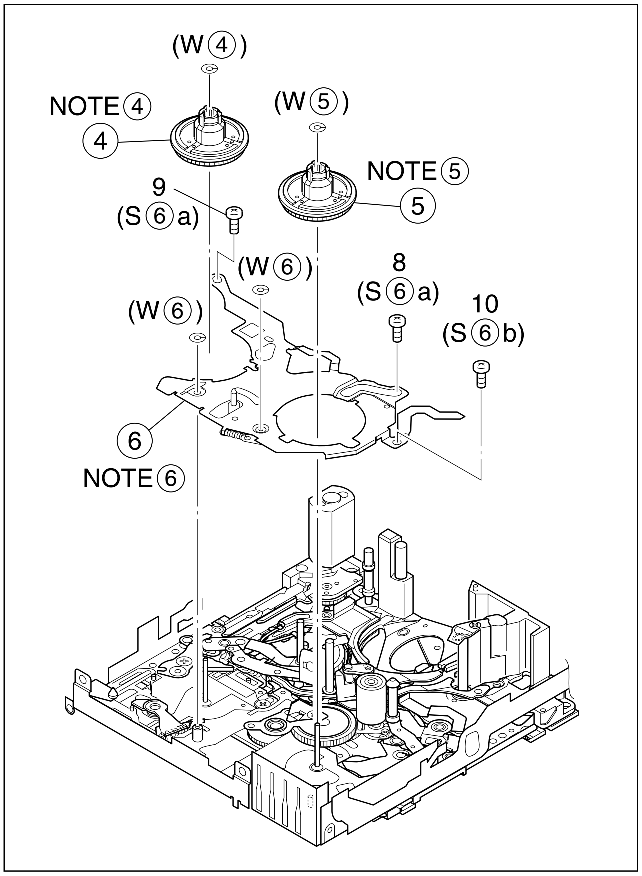
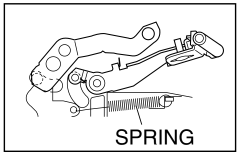

(W④)
NOTE④
④
(W⑤)
NOTE⑤
⑤
9
(S⑥a)
(W⑥)
(W⑥)
8
(S⑥a)
10
(S⑥b)
⑥
NOTE⑥

Fig. 2-4-5

4. ⑦ TENSION ARM ASSY
   ⑧ SLANT POLE ARM ASSY
   ⑨ TU ARM ASSY
   ⑩ SWING ARM ASSY

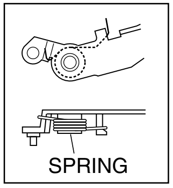
NOTE⑦:
When detaching, remove the spring of the ⑫ PAD ARM ASSY in advance.
Pay attention to the attachment position.

NOTE⑦



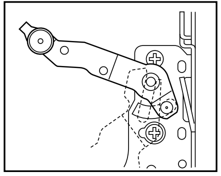
NOTE⑧:
Be careful not to lose any parts (such as a spring).

NOTE⑧



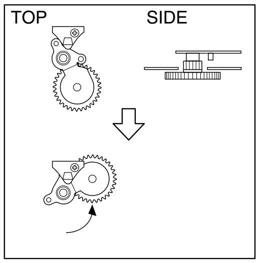
NOTE⑨:
Pay attention to the mounting position.

NOTE⑨



NOTE⑩:
When detaching, remove the screw then remove the SWING ARM ASSY by pulling it up and turning it.

NOTE⑩



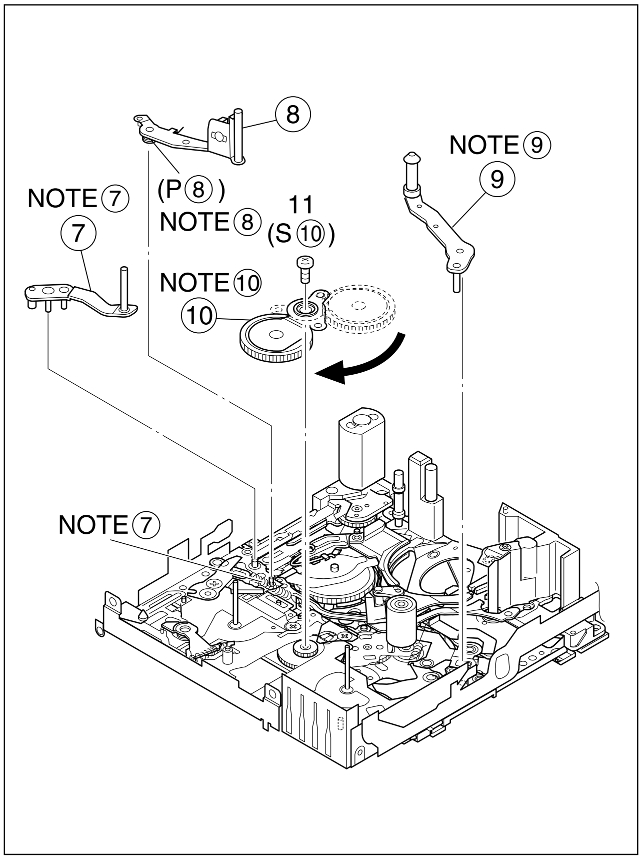

⑧
NOTE⑨
⑨
NOTE⑦
⑦
(P⑧)
NOTE⑧
11
(S⑩)
NOTE⑩
⑩
NOTE⑦

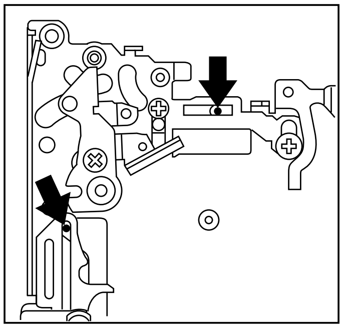
Fig. 2-4-6

5. ⑪ SLIDE DECK ASSY

NOTE⑪a:
Each of the parts on the SLIDE DECK ASSY can be replaced separately.
When detaching the assembly, if there is no need to replace any of its parts, remove the SLIDE DECK ASSY as it is.

NOTE⑪b:
When mounting, pay attention to the positions of the ㉒ SLIDE LEVER (2) studs to which the SLIT WASHERS are attached and the BRAKE CONTROL LEVER ASSY.
When mounting, position the CONTROL PLATE on the left side.
Pay attention to the position of the SLIDE GUIDE PLATE during mounting.

NOTE⑪b



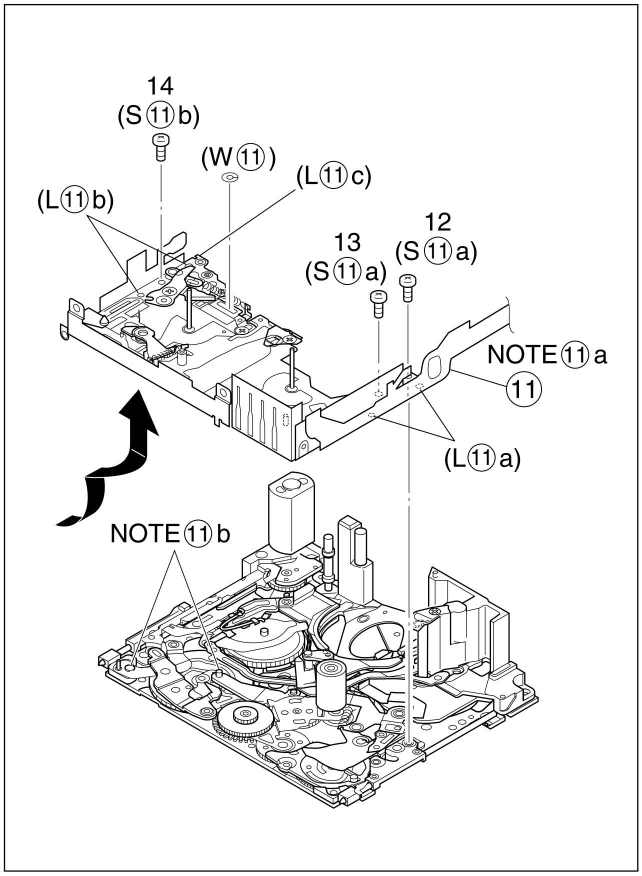

14
(S⑪b)
(W⑪)
(L⑪c)
(L⑪b)
13
(S⑪a)
12
(S⑪a)
NOTE⑪a
⑪
(L⑪a)
NOTE⑪b

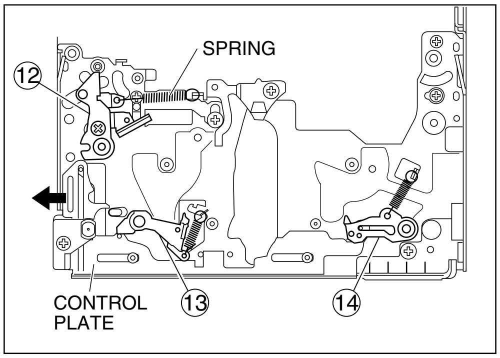
Fig. 2-4-7a

6. ⑫ PAD ARM ASSY
⑬ SUP BRAKE ASSY
⑭ TU BRAKE ASSY

NOTE⑫:
The spring may have already been disengaged when the ⑧ SLANT POLE ARM ASSY was removed.

NOTES⑬/⑭:
When mounting, pay attention to the correct positioning.
Mount the CONTROL PLATE by moving it fully toward the left side.

NOTE⑫⑬⑭


SPRING
⑫
CONTROL PLATE
⑬
⑭

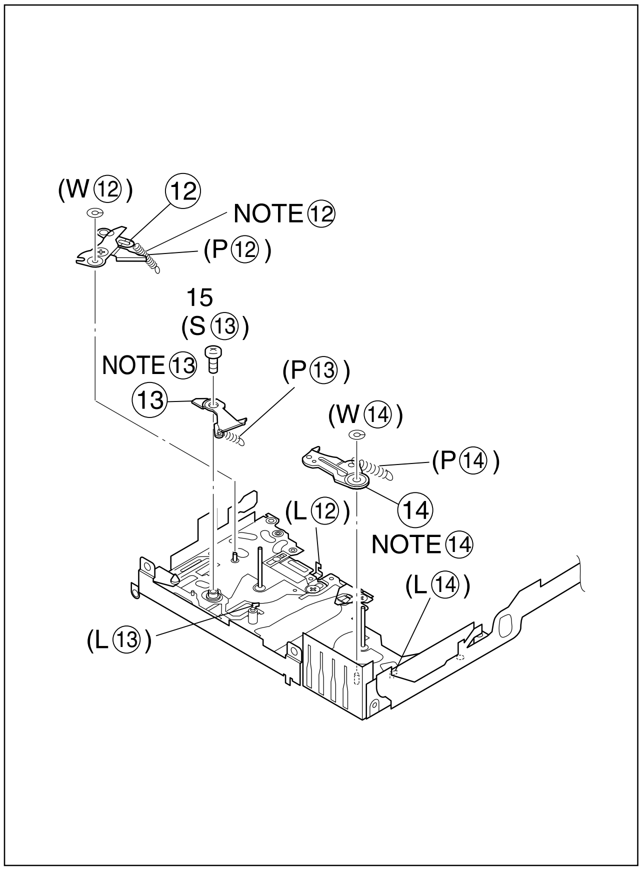
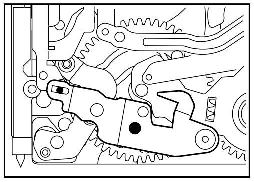

(W⑫)
⑫
NOTE⑫
(P⑫)
15
(S⑬)
NOTE⑬
(P⑬)
⑬
(W⑭)
(P⑭)
(L⑫)
⑭
NOTE⑭
(L⑭)
(L⑬)

Fig. 2-4-7b

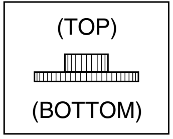
7. ⑮ TENSION CTL LEVER ASSY
   ⑯ CENTER GEAR
   ⑰ PINCH ROLLER ARM F. ASSY
   ⑱ TENSION CTL PLATE ASSY
   ⑲ BRAKE CTL LEVER ASSY

NOTES⑮/⑯:
When mounting, pay attention to the correct positioning.

NOTE⑮

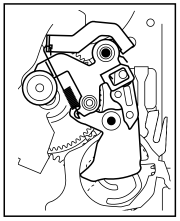


NOTE⑯



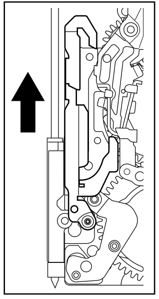
NOTE⑰:
Take care against grease attachment during work.

NOTE⑰

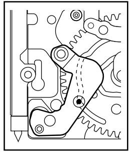


NOTES⑱/⑲:
When mounting, pay attention to the correct positioning.

NOTE⑱



NOTE⑲



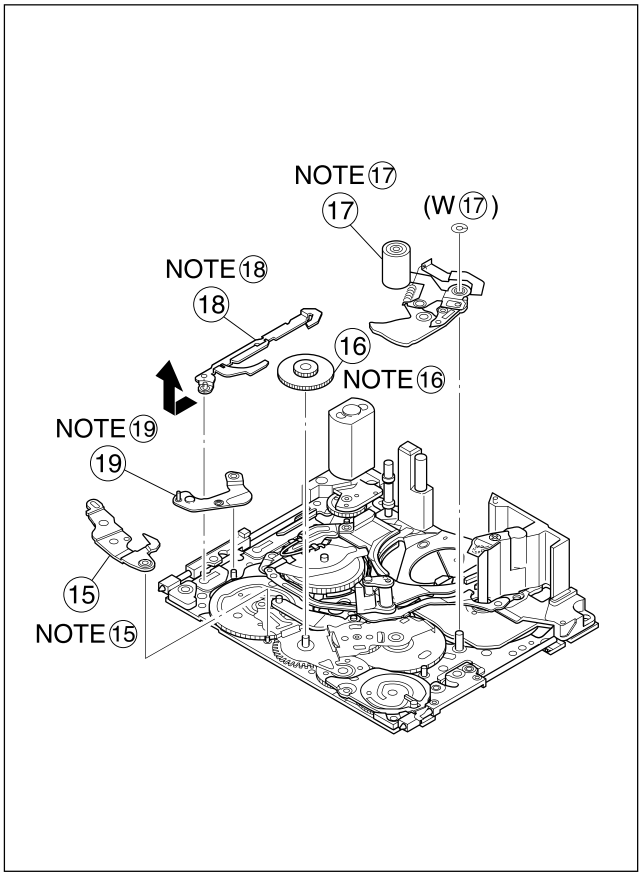
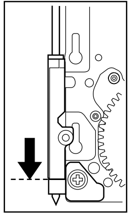

NOTE⑰
⑰
(W⑰)
NOTE⑱
⑱
⑯
NOTE⑯
NOTE⑲
⑲
⑮
NOTE⑮

Fig. 2-4-8

8. ⑳ MOTOR BRACKET ASSY
   ㉑ GUIDE RAIL ASSY
   ㉒ SLIDE LEVER 2 ASSY
   ㉓ LOADING PLATE ASSY
   ㉔ MODE GEAR
   ㉕ EJECT LEVER

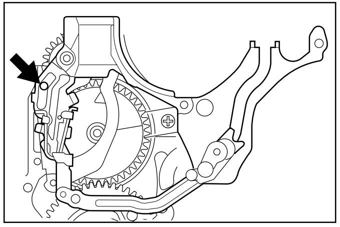
NOTE⑳:
When mounting, pay attention to the positioning of the sliding parts.

NOTE⑳



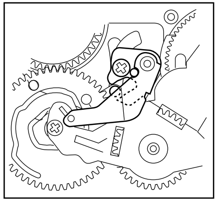
NOTE㉑:
When mounting, take care that no part is allowed to float or rattle.

NOTE㉑

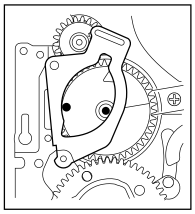


NOTES㉒/㉓/㉔/㉕:
When mounting, pay attention to the correct positioning.

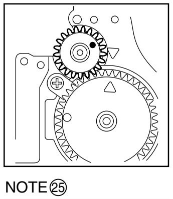
NOTE㉒



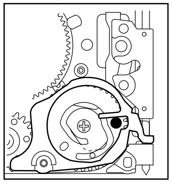
NOTE㉓



NOTE㉔



NOTE㉕



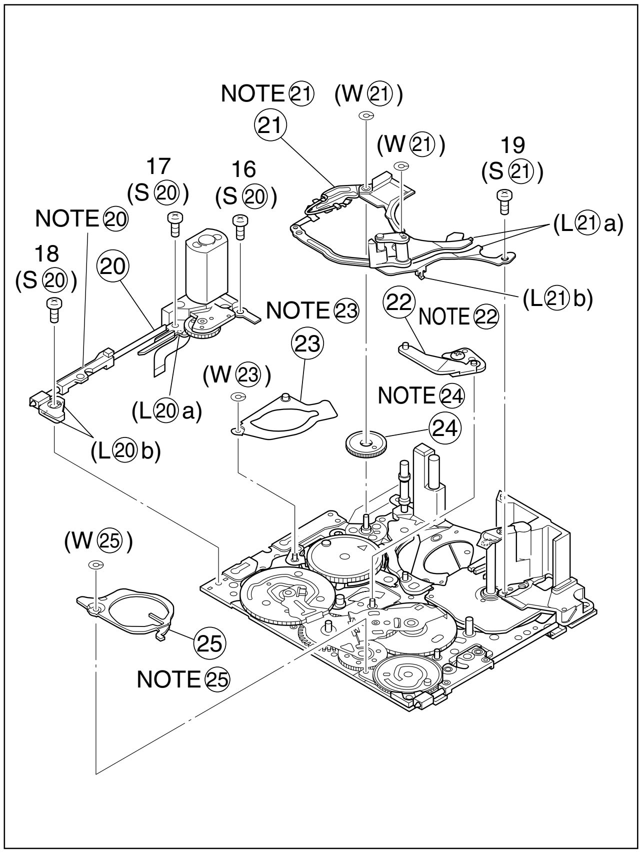
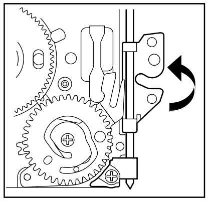

NOTE㉑
(W㉑)
㉑
(W㉑)
19
(S㉑)
17
(S⑳)
16
(S⑳)
NOTE⑳
(L㉑a)
18
(S⑳)
⑳
NOTE㉓
㉒
NOTE㉒
(L㉑b)
㉓
(W㉓)
(L⑳a)
NOTE㉔
㉔
(L⑳b)
(W㉕)
㉕
NOTE㉕

Fig. 2-4-9

9. ㉖ BASE R ASSY
㉗ ROTARY ENCODER
㉘ GEAR COVER ASSY
㉙ MAIN CAM ASSY

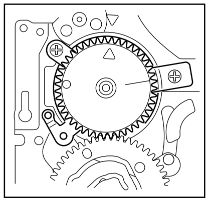
NOTE㉖:
When mounting, fold the sliding part to the inner side.

NOTE㉖



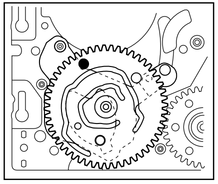
NOTE㉗:
When mounting, pay attention to the correct positioning and the FPC layout.

NOTE㉗



NOTE㉙:
When mounting, pay attention to the correct positioning.

NOTE㉙



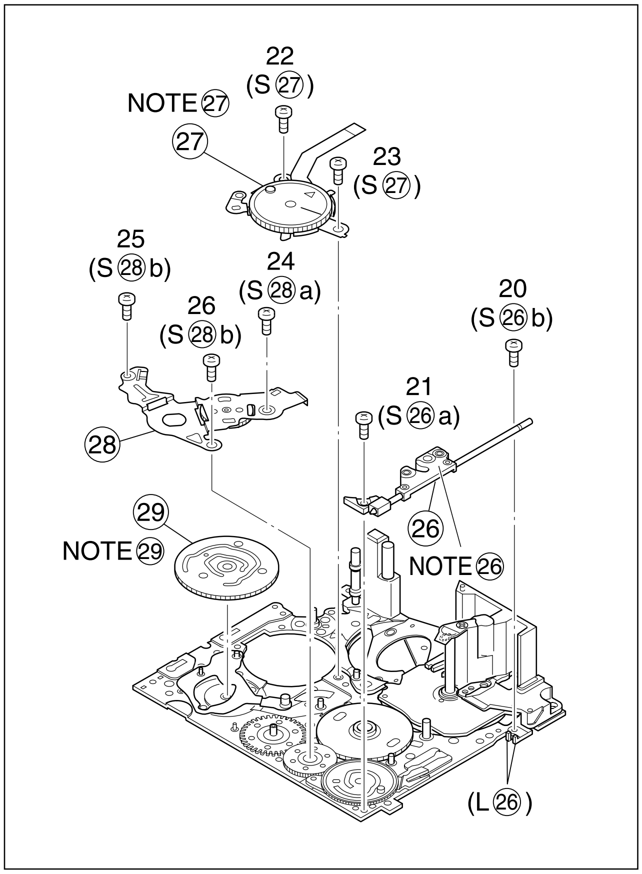
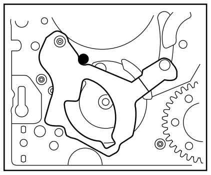

22
(S㉗)
NOTE㉗
㉗
23
(S㉗)
25
(S㉘b)
24
(S㉘a)
26
(S㉘b)
20
(S㉖b)
21
(S㉖a)
㉘
㉙
NOTE㉙
㉖
NOTE㉖
(L㉖)

Fig. 2-4-10

10. ㉚ SLIDE ARM ASSY
㉛ CONNECT GEAR 2
㉜ SUB CAM ASSY
㉝ CONTROL ARM ASSY
㉞ REEL GEAR 1

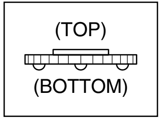
NOTE㉚:
When mounting, pay attention to the correct positioning and the FPC layout.

NOTE㉚



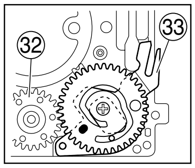
NOTE㉛:
When mounting, pay attention to the position of the front and back.

NOTE㉛

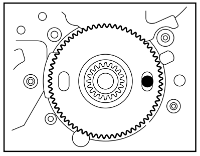


NOTES㉜/㉝/㉞:
When mounting, pay attention to the correct positioning and the FPC layout.

NOTE㉜/㉝



NOTE㉞



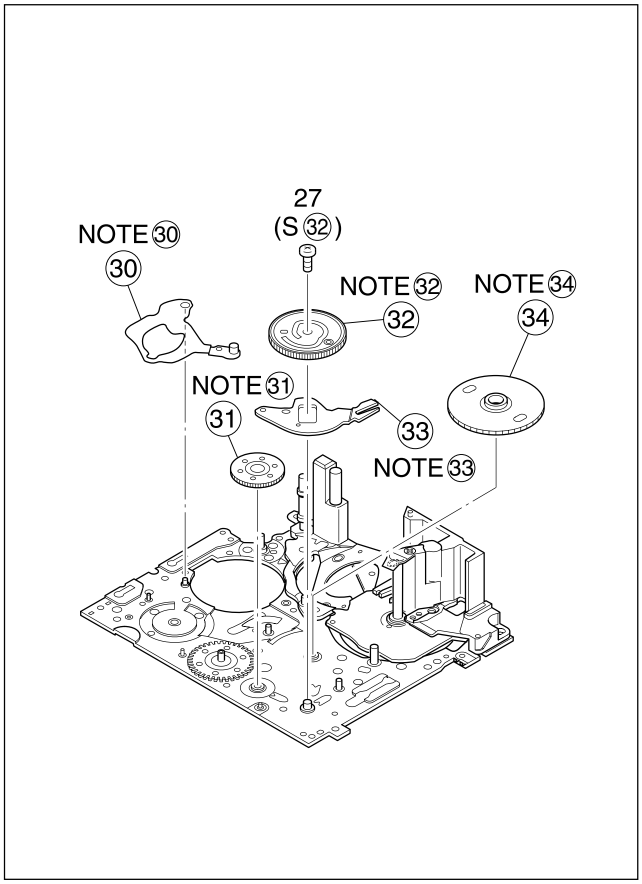

27
(S㉜)
NOTE㉚
㉚
NOTE㉜
㉜
NOTE㉞
㉞
NOTE㉛
㉛
㉝
NOTE㉝

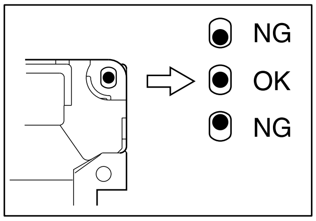
Fig. 2-4-11

11. ㉟ DRUM BASE ASSY
㊱ CAPSTAN MOTOR
㊲ MAIN DECK ASSY

NOTES ㉟ a /㊱:
When detaching, remove them together and then separate ㊱ from ㉟a.

NOTE ㉟ b:
When mounting, attach the DRUM BASE ASSY so that the screw hole is located at the center of the ellipse.

NOTE㉟b



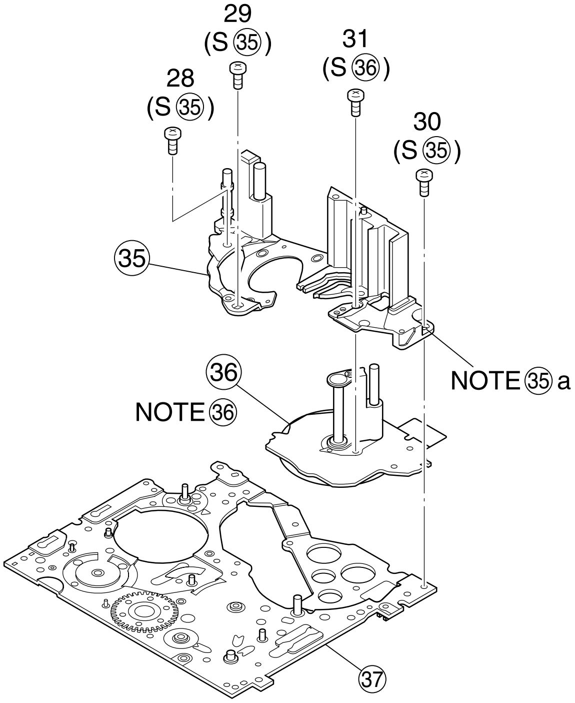

29
(S ㉟)
31
(S ㊱)
28
(S ㉟)
30
(S ㉟)
㉟
NOTE ㉟ a
㊱
NOTE ㊱
㊲

Fig. 2-4-12

2.4.2 List of procedures for disassembly

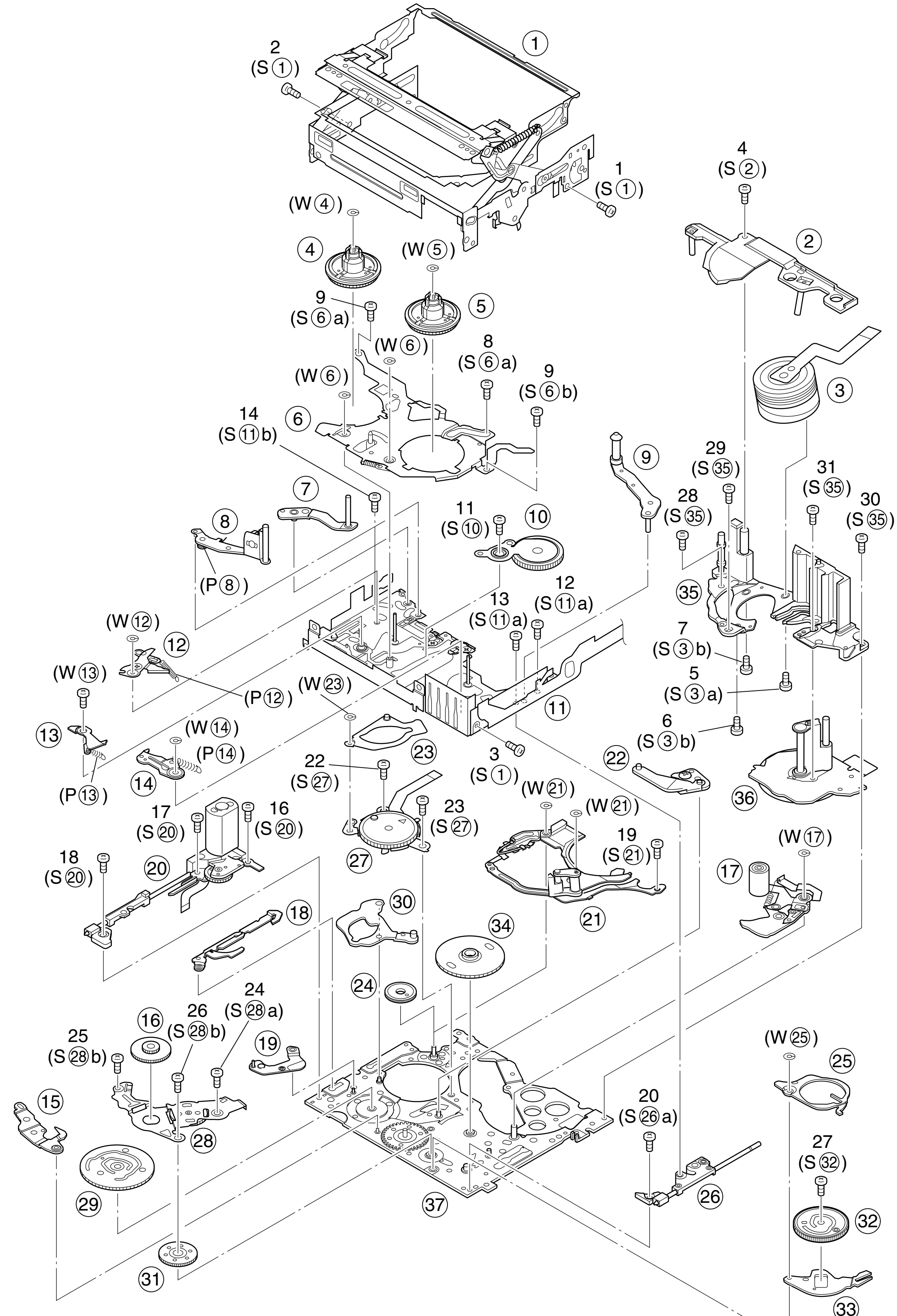
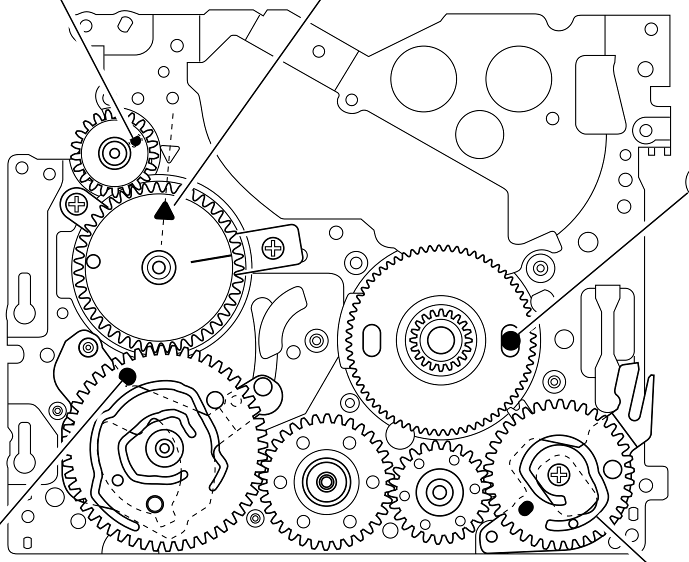

①
2 (S①)
1 (S①)
4 (S②)
②
(W④)
④
(W⑤)
⑤
9 (S⑥a)
③
8 (S⑥a)
(W⑥)
(W⑥)
9 (S⑥b)
14 (S⑪b)
⑥
⑨
29 (S㉟)
31 (S㉟)
28 (S㉟)
30 (S㉟)
⑦
⑧
11 (S⑩)
⑩
(P⑧)
12 (S⑪a)
13 (S⑪a)
㉟
(W⑫)
⑫
7 (S③b)
(W⑬)
(P⑫)
(W㉓)
⑪
5 (S③a)
6 (S③b)
⑬
(W⑭)
(P⑭)
㉓
3 (S①)
㉒
⑭
22 (S㉗)
(W㉑)
(W㉑)
㊱
(P⑬)
17 (S⑳)
16 (S⑳)
23 (S㉗)
19 (S㉑)
(W⑰)
18 (S⑳)
⑳
㉗
⑰
㉚
⑱
㉞
㉑
㉔
24 (S㉘a)
26 (S㉘b)
25 (S㉘b)
⑯
⑲
(W㉕)
㉕
⑮
20 (S㉖a)
㉘
27 (S㉜)
㉖
㉙
㊲
㉜
㉛
㉝

Fig. 2-4-13

2.5 CHECKUP AND ADJUSTMENT OF MECHANISM PHASE



㉔ MODE GEAR
Align the MODE GEAR with the Main Deck Assembly hole.

Note:
The MODE GEAR may be displaced during the mechanism operation, however it can be checked from the rear and realigned during manual assembly.

㉗ ROTARY ENCODER
Mount the ROTARY ENCODER by aligning its mark (△) and the mark (▽) of the Main Deck Assembly.

Note:
Be careful when handling the FPC during mounting.

㉞ REEL GEAR 1
Align the REEL GEAR 1 with the Main Deck Assembly hole.

Note:
The REEL GEAR 1 may be displaced during mechanism operation, however this can be checked from the rear and realigned during manual assembly.

㉙ MAIN CAM ASSY/ ㉚ SLIDE ARM ASSY
When mounting the SLIDE ARM ASSY align it with the Main Deck Assembly and MAIN CAM ASSY holes.

Note:
During the mounting procedure, make sure that the ㉜. SUB CAM ASSY is in the correct mounting position.

㉜ SUB CAM ASSY/ ㉝ CONTROL ARM ASSY
Mount the SUB CAM ASSY hole to align with the CONTROL ARM ASSY and Main Deck Assembly holes and then tighten them all together with a screw.
The screw tightening torque should be 0.039 N•m (0.4 kgf•cm)

Note:
When mounting it, make sure that the ㉙ MAIN CAM ASSY is in the correct mounting position.

Fig. 2-5-1

2.6 MECHANISM ADJUSTMENTS

2.6.1 Adjustment of the slide guide plate

Use Fig. 2-6-1 as the reference unless otherwise specified.

1. Set the PLAY mode.
   See Fig. 2-3-8.
2. Loosen the screws Ⓐ,Ⓑ).
3. With the Main Deck Assembly and Slide Deck Assembly pushed inside the unit, tighten the screws (Ⓐ,Ⓑ) while applying pressure on the slit washers of the slide guide plate.
   The pressure applied should be enough to enable utilization of the rebounding force of the springs.
   The tightening torque should be 0.069 N•m (0.7 kgf•cm).
4. Check the operation.
   Repeat unloading and loading several times and make sure that these operations can be performed smoothly without producing rattles.

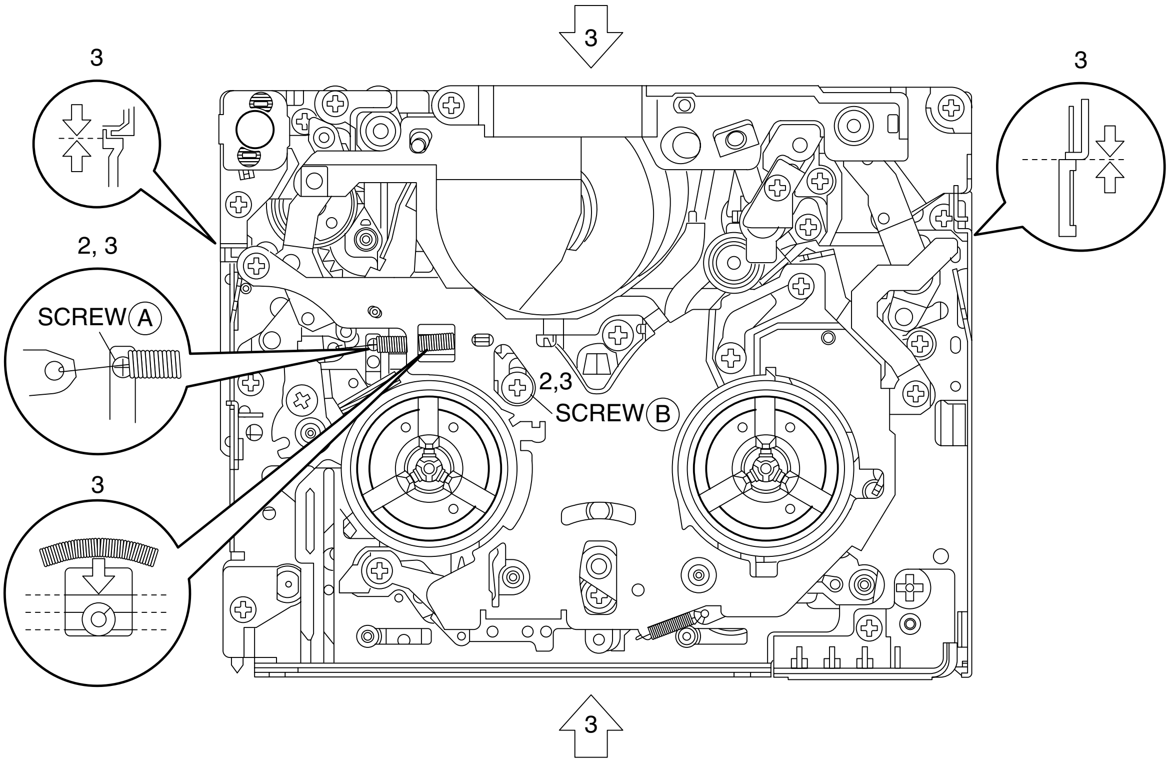


Fig. 2-6-1

2.6.2 Adjustment of the Tension Arm and Pad Arm Assemblies

Use Fig. 2-6-2 as the reference unless otherwise specified.

1. Set the PLAY mode.
   Se Fig. 2-3-8.
2. Loosen the screw Ⓐ.
3. With the take-up side at the bottom, align the extreme end of the Tension Arm Assembly with the crossed grooves on the screw Ⓑ that retains the Loading Motor Assembly and then tighten the screw Ⓐ.
   The tightening torque should be 0.069 N•m (0.7 kgf•cm).
4. Check the operation.
   Repeat unloading and loading several times and make sure that the Tension Arm Assembly is located within the normal range.

Note : *With the above checking method, a Torque Meter is not used.*
When a Torque meter is used, the following are the reference values:

Back Tension : 2.0 to 6.0 g•cm
Play Torque : 8.3 to 12.5 g•cm

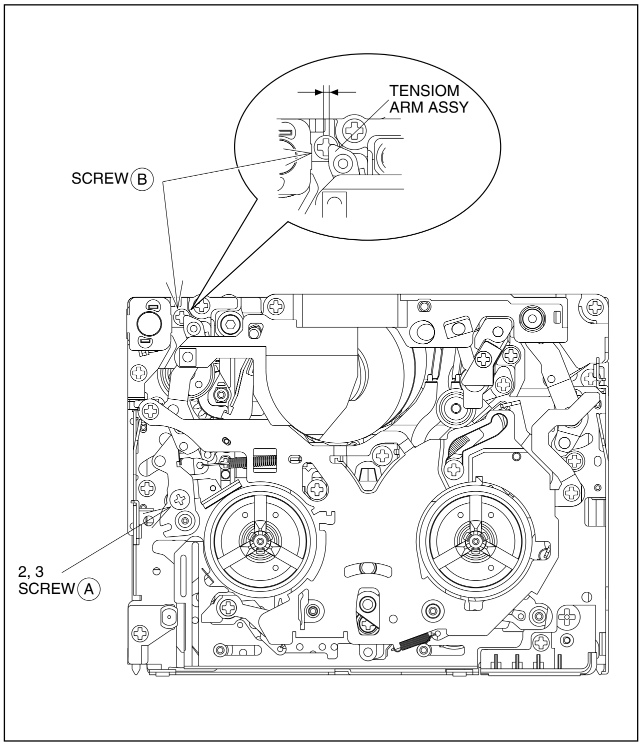


Fig. 2-6-2

2.6.3 Adjustment of the Slide Lever 2

Use Fig. 2-6-3 as the reference unless otherwise specified.

1. Set the C IN mode.
   See Fig. 2-3-4.
2. Loosen the screw Ⓐ.
3. Set the Main Deck and Slide Deck Assemblies apart so that they do not rattle, then tighten the screw Ⓐ by screwing it fully toward the Drum Assembly.
   The tightening torque should be 0.069 N•m (0.7 kgf•cm).
4. Check the operation.
   Repeat unloading and loading several times and make sure that these operations can be performed smoothly without producing rattles.

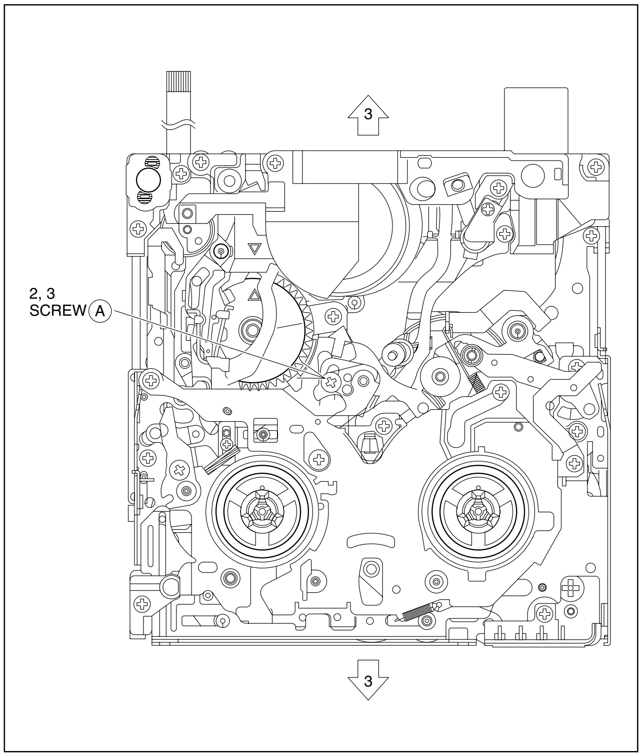
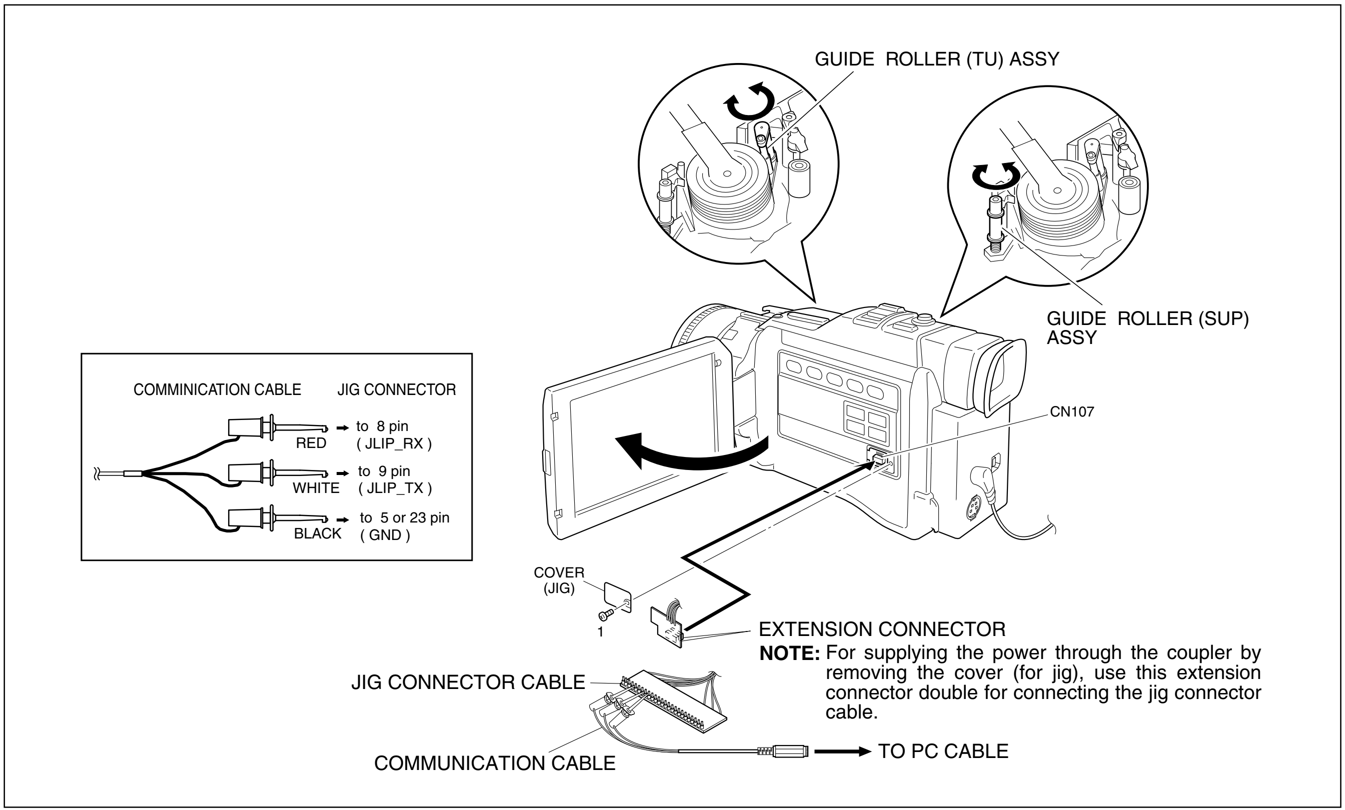


Fig. 2-6-3

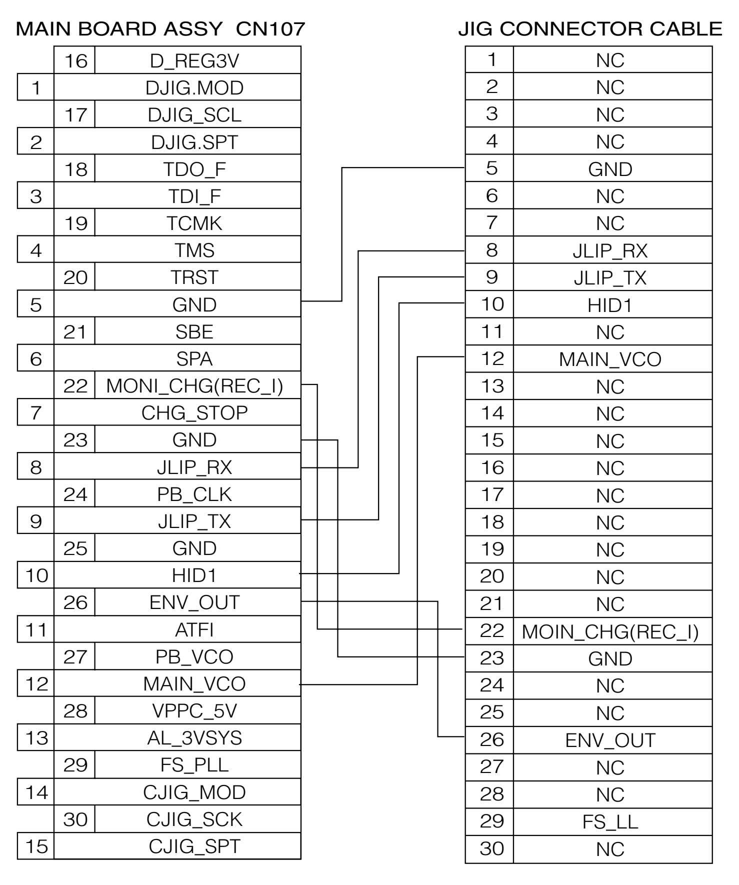
2.7 JIG CONNECTOR CABLE CONNECTION

Remove one screw (1) first and the cover (JIG) next.


GUIDE ROLLER (TU) ASSY
GUIDE ROLLER (SUP) ASSY
CN107
COMMINICATION CABLE
JIG CONNECTOR
RED
to 8 pin (JLIP_RX)
WHITE
to 9 pin (JLIP_TX)
BLACK
to 5 or 23 pin (GND)
COVER (JIG)
1
EXTENSION CONNECTOR
JIG CONNECTOR CABLE
COMMUNICATION CABLE
TO PC CABLE

NOTE: For supplying the power through the coupler by removing the cover (for jig), use this extension connector double for connecting the jig connector cable.

Fig. 2-7-1



MAIN BOARD ASSY CN107

	16	D_REG3V
1		DJIG.MOD
	17	DJIG_SCL
2		DJIG.SPT
	18	TDO_F
3		TDI_F
	19	TCMK
4		TMS
	20	TRST
5		GND
	21	SBE
6		SPA
	22	MONI_CHG(REC_I)
7		CHG_STOP
	23	GND
8		JLIP_RX
	24	PB_CLK
9		JLIP_TX
	25	GND
10		HID1
	26	ENV_OUT
11		ATFI
	27	PB_VCO
12		MAIN_VCO
	28	VPPC_5V
13		AL_3VSYS
	29	FS_PLL
14		CJIG_MOD
	30	CJIG_SCK
15		CJIG_SPT

JIG CONNECTOR CABLE

1	NC
2	NC
3	NC
4	NC
5	GND
6	NC
7	NC
8	JLIP_RX
9	JLIP_TX
10	HID1
11	NC
12	MAIN_VCO
13	NC
14	NC
15	NC
16	NC
17	NC
18	NC
19	NC
20	NC
21	NC
22	MOIN_CHG(REC_I)
23	GND
24	NC
25	NC
26	ENV_OUT
27	NC
28	NC
29	FS_LL
30	NC

Fig. 2-7-2

2.8 SERVICE NOTE

Use the following chart to manage mechanism parts that are removed for disassembling the mechanism.

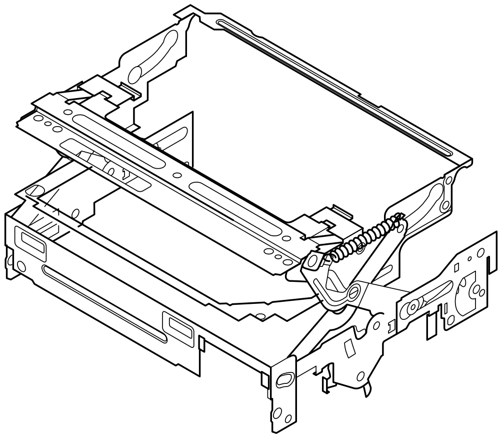
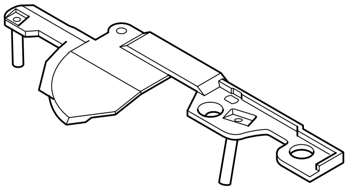
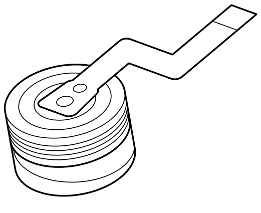
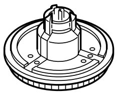
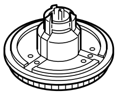
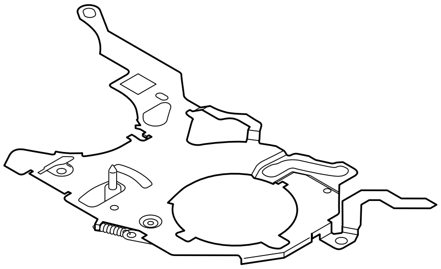
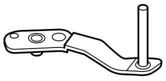
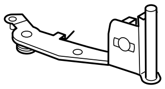
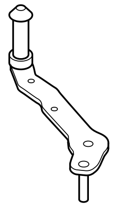
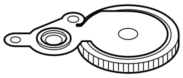
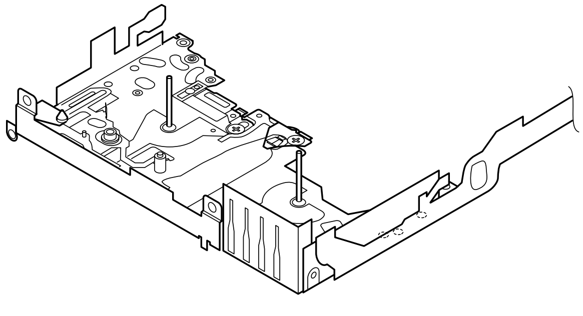
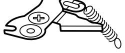
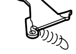
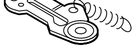
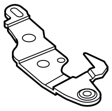
Fig.		
2-4-3	① CASSETTE HOUSING ASSY	
2-4-4	② UPPER BASE ASSY	
2-4-4	③ DRUM ASSY	
2-4-5	④ REEL DISK ASSY(SUP)	
	⑤ REEL DISK ASSY(TU)	
	⑥ REEL COVER ASSY	
2-4-6	⑦ TENSION ARM ASSY	
	⑧ SLANT POLE ARM ASSY	
	⑨ TU ARM ASSY	
	⑩ SWING ARM ASSY	
2-4-7a	⑪ SLIDE DECK ASSY	
2-4-7b	⑫ PAD ARM ASSY	
	⑬ SUP BRAKE ASSY	
	⑭ TU BRAKE ASSY	

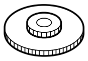
Table 2-8-1a

Fig.
2-4-8

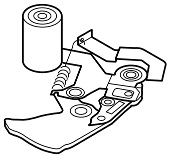
⑮ TENSION CTL LEVER ASSY



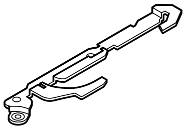
⑯ CENTER GEAR



⑰ PINCH ROLLER ARM F. ASSY



⑱ TENSION CTL PLATE ASSY



⑲ BRAKE CTL LEVER ASSY

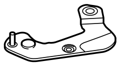
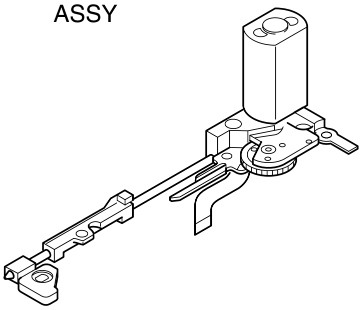
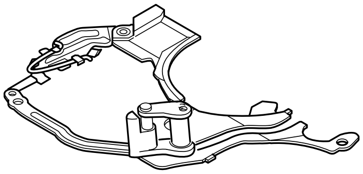


Fig.
2-4-9

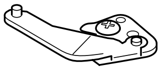
⑳ MOTOR BRACKET ASSY



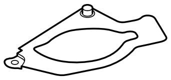
㉑ GUIDE RAIL ASSY



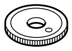
㉒ SLIDE LEVER 2 ASSY



㉓ LOADING PLATE ASSY



㉔ MODE GEAR



㉕ EJECT LEVER

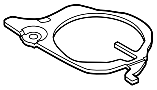
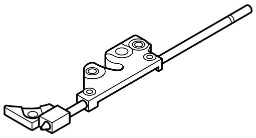
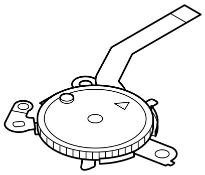


Fig.
2-4-10

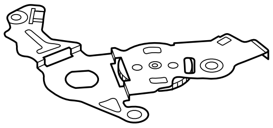
㉖ BASE R ASSY



㉗ ROTARY ENCODER



㉘ GEAR COVER ASSY



㉙ MAIN CAM ASSY

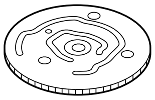
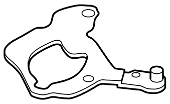
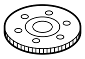


Fig.
2-4-11

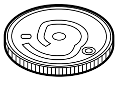
㉚ SLIDE ARM ASSY



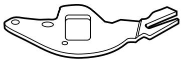
㉛ CONNECT GEAR 2



㉜ SUB CAM ASSY



㉝ CONTROL ARM ASSY



㉞ REEL GEAR 1

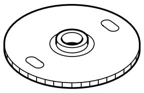
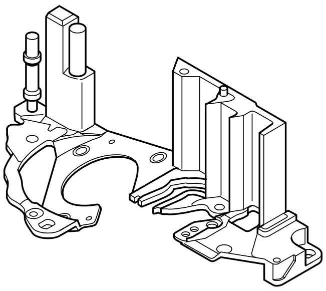
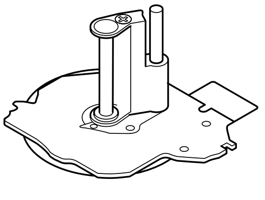


Fig.
2-4-12

㉟ DRUM BASE ASSY



㊱ CAPSTAN MOTOR



㊲ MAIN DECK ASSY

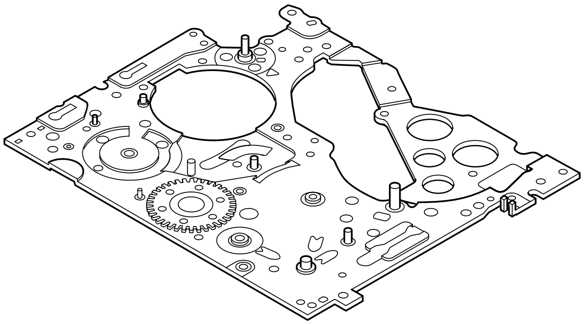


Table 2-8-1b

SECTION 3
ELECTRICAL ADJUSTMENT

3.1 PRECAUTION

1. Precaution

Both the camera and deck sections of this model needs a personal computer for adjustment except simple adjustment with potentiometers. If some of the following parts is replaced for repair or other reason, the repaired set must be adjusted with a personal computer.

- OP block
- E^2PROM (IC1003 of MAIN board)
- MONITOR
- E^2PROM (IC7302 of MONITOR board)

In the event of malfunction with electrical circuits, troubleshooting with the aid of proper test instruments most be done first, and then commence necessary repair, replacement and adjustment, etc.

1. In case of wiring to chip test points for measurement, use IC clips, etc. to avoid any stress.
2. Since connectors are fragile, carefully handle them in disconnecting and connecting.
3. Shortcircuit between operation un it and DECK chassis.

2. Required test equipment

1. Color TV monitor.
2. AC power adapter/charger
3. Oscilloscope (dual-trace type, observable 100 MHz or higher frequency)

Note : *It is recommended to use one observable 300 MHz or higher frequency.*

4. Digital voltmeter
5. Frequency counter (with threshold level adjuster)
6. Personal computer

3. Tools required for adjustments

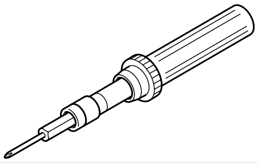
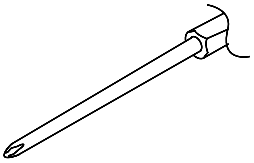
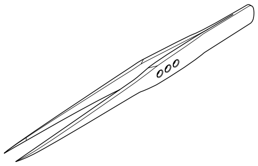
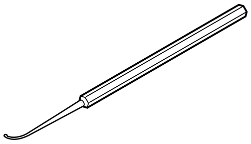
1 Torque Driver YTU94088	2 Bit YTU94088-003
	
3 Tweezers P-895	4 Chip IC Replacement Jig PTS40844-2
	

Table 3-1-1a

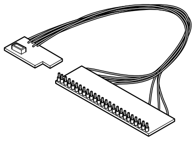
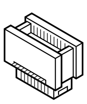
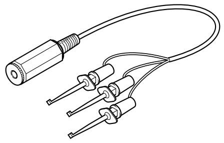
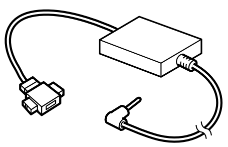
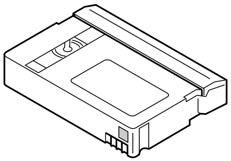
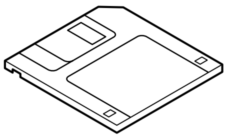
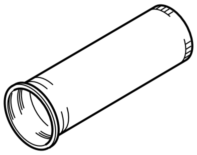
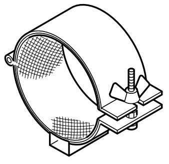
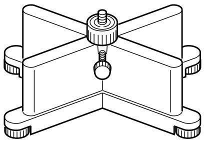
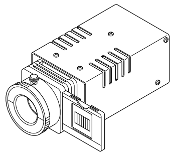
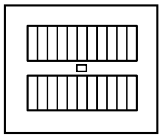
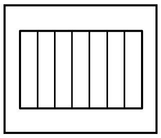
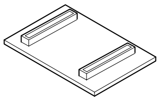
5 Jig Connector Cable YTU93106B	6 Extension connector YTU94145C-30
	
7 Communication Cable YTU93107A	8 PC Cable QAM0099-002
	
9 Alignment Tape MC-2	10 Service Support System YTU94057-50
	
11 INF Adjustment Lens YTU92001B	12 INF Adjustment Lens Holder YTU94087
	
13 Camera Stand YTU93079	14 Light box Assembly YTU93096A
	
15 Gray Scale Chart YTU94133A	16 Color Bar Chart YTU94133C
	
17 B to B connector Assy YTU94153A-120	
	

Table 3-1-1b

1. **Torque driver**
   Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
2. **Bit**
   This bit is slightly longer than those set in conventional torque drivers.
3. **Tweezers**
   To be used for removing and installing parts and wires.
4. **Chip IC replacement jig**
   To be used for adjustment of the camera system.
5. **Jig connector cable**
   Connected to CN107 of the main board and used for electrical adjustment, etc.
6. **Extension connector**
   Connect this extension connector to the connector of the jig connector cable for extending the cable connector.
   Note : *For supplying the power through the coupler by removing the cover (for jig), use this extension connector double for connecting the jig connector cable.*
7. **Communication Cable**
   Connect the Communication cable between the PC cable and Jig connector cable when performing a PC adjustment.
8. **PC cable**
   To be used to connect the VideoMovie and a personal computer with each other when a personal computer is used for adjustment.
9. **Alignment tape**
   To be used for check and adjustment of interchangeability of the mechanism.
10. **Service support system**
    To be used for adjustment with a personal computer.
11. **INF adjustment lens**
    To be used for adjustment of the camera system.
12. **INF adjustment lens holder**
    To be used together with the camera stand for operating the VideoMovie in the stripped-down condition such as the status without the exterior parts or for using commodities that are not yet conformable to the interchangeable ring.
13. **Camera stand**
    To be used together with the INF adjustment lens holder.
14. **Light box assembly**
    To be used for adjustment of the camera system.
15. **Gray scale chart (for Light box assembly)**
    To be used for adjustment of the camera system.
16. **Color bar chart (for Light box assembly)**
    To be used for adjustment of the camera system.
17. **B to B Connector**
    Extension connector for use in the board-to-board connection.

3.2 SETUP

1. Setup for electrical adjustment with personal computer

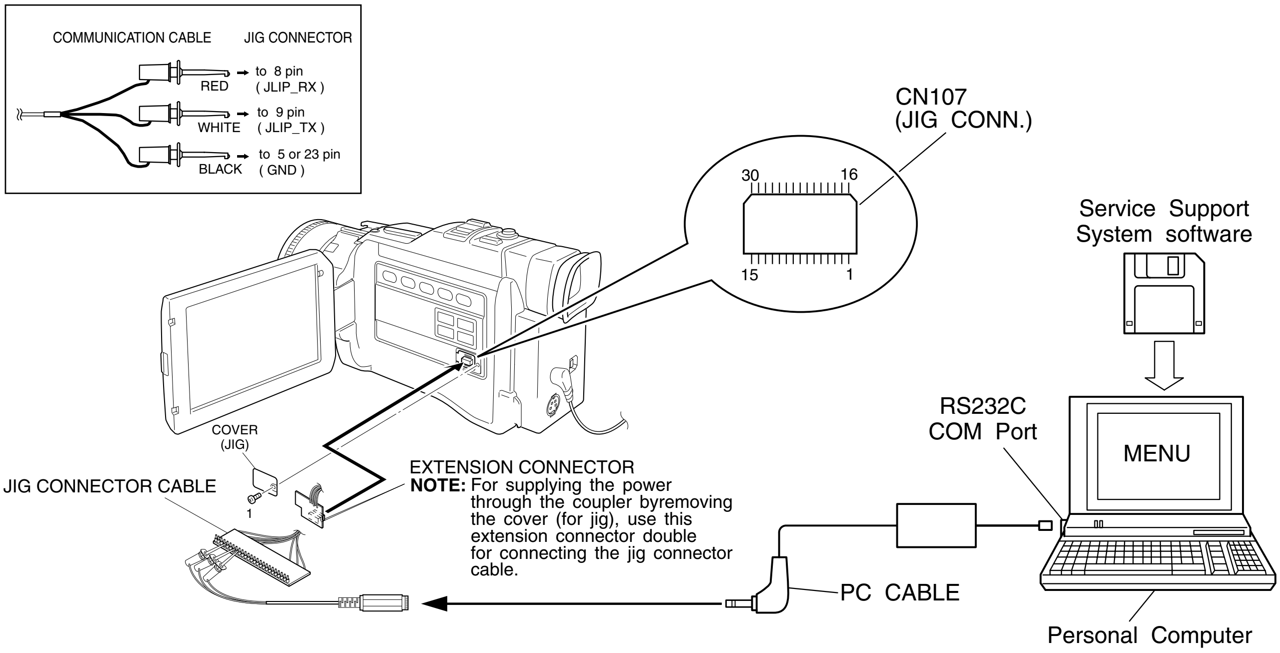

COMMUNICATION CABLE
JIG CONNECTOR
RED
to 8 pin
(JLIP_RX)
WHITE
to 9 pin
(JLIP_TX)
BLACK
to 5 or 23 pin
(GND)
CN107
(JIG CONN.)
30
16
15
1
Service Support
System software
RS232C
COM Port
MENU
COVER
(JIG)
JIG CONNECTOR CABLE
1
EXTENSION CONNECTOR
NOTE: For supplying the power through the coupler byremoving the cover (for jig), use this extension connector double for connecting the jig connector cable.
PC CABLE
Personal Computer

Fig. 3-2-1 Connection for Service support system

3.3 MONITOR ADJUSTMENT

Notes : *Unless otherwise specified, all measurement points and adjustment parts are located on MONITOR board.*

3.3.1 PLL (MONI)

Subject	● Camera picture ● Gray scale
Mode	● EE
Equipment	● Oscilloscope
Measurement point	● IC7301 pin 24 (RPD) or TL7301 (RPD)
Adjustment part	● R7321 (PLL MONI)
Specification	● A = B

1) Observe waveform at pin 24 of the IC7301 or TP7301 (RPD).
2) For the wavefor shown in the waveform chart (Fig. 3-3-1), equalize the width of A and B with each other by adjusting R7321.

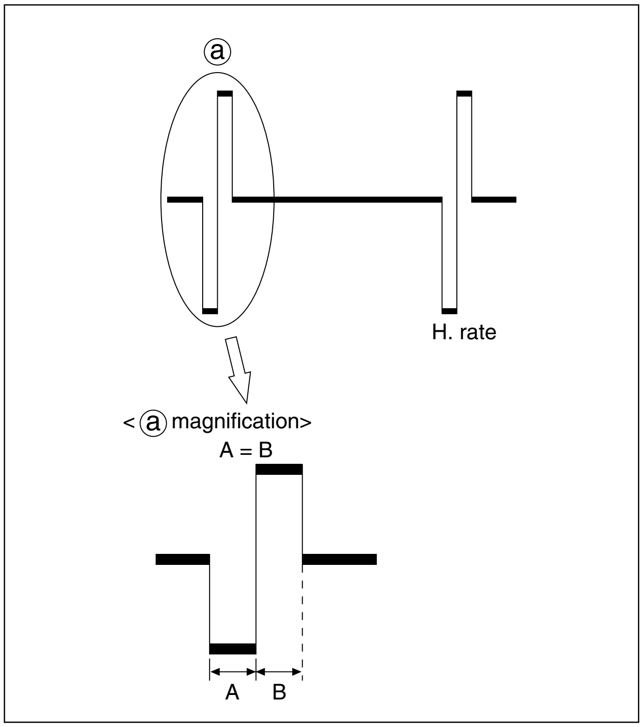

ⓐ
H. rate
< ⓐ magnification>
A = B
A
B

Fig. 3-3-1 PLL (MONI)

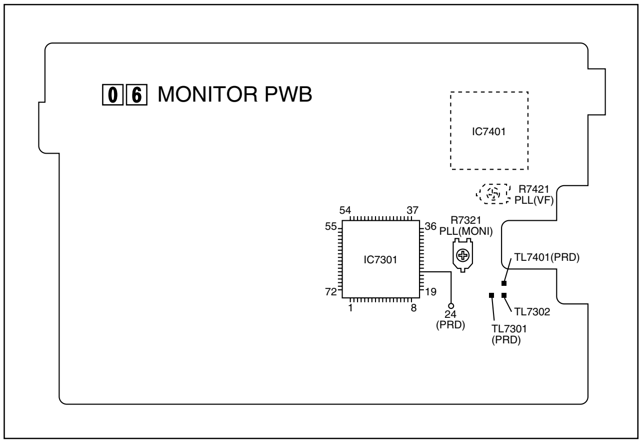

06 MONITOR PWB
IC7401
R7421
PLL(VF)
54
37
55
36
R7321
PLL(MONI)
IC7301
TL7401(PRD)
72
19
1
8
24
(PRD)
TL7302
TL7301
(PRD)

Fig. 3-3-2 MONITOR board (COMPONENT SIDE)

3.4 ELECTRONIC VIEWFINDER (E.VF) ADJUSTMENT

Notes : *Unless otherwise specified, all measurement points and adjustment parts are located on MONITOR board.*

3.4.1 PLL (VF)

Subject	● Camera picture ● Gray scale
Mode	● EE
Equipment	● Oscilloscope
Measurement point	● IC7401 pin 24 (RPD) or TL7401 (RPD)
Adjustment part	● R7421 (PLL VF)
Specification	● A = B

1) Observe waveform at pin 24 of the IC7401 or TL7401 (RPD).
2) For the wavefor shown in the waveform chart (Fig. 3-4-1), equalize the width of A and B with each other by adjusting R7421.

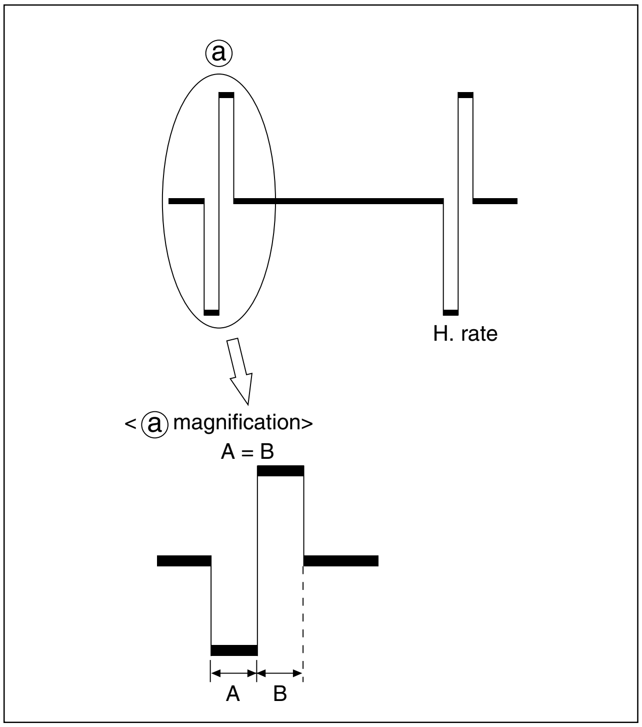

ⓐ
H. rate
< ⓐ magnification>
A = B
A
B

Fig. 3-4-1 PLL (VF)

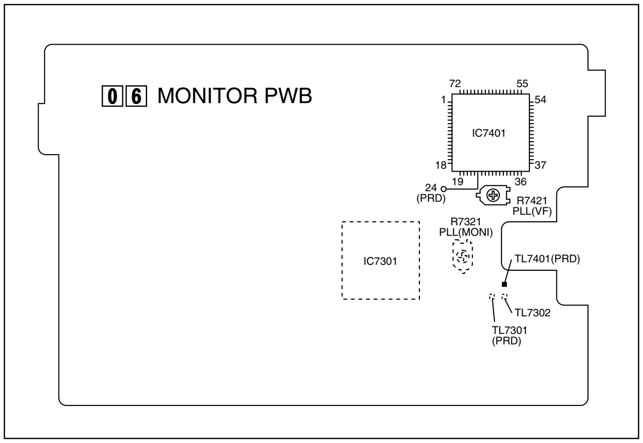

06 MONITOR PWB
72
55
1
54
IC7401
18
37
19
36
24
(PRD)
R7421
PLL(VF)
R7321
PLL(MONI)
IC7301
TL7401(PRD)
TL7302
TL7301
(PRD)

Fig. 3-4-2 MONITOR board (COMPONENT SIDE)

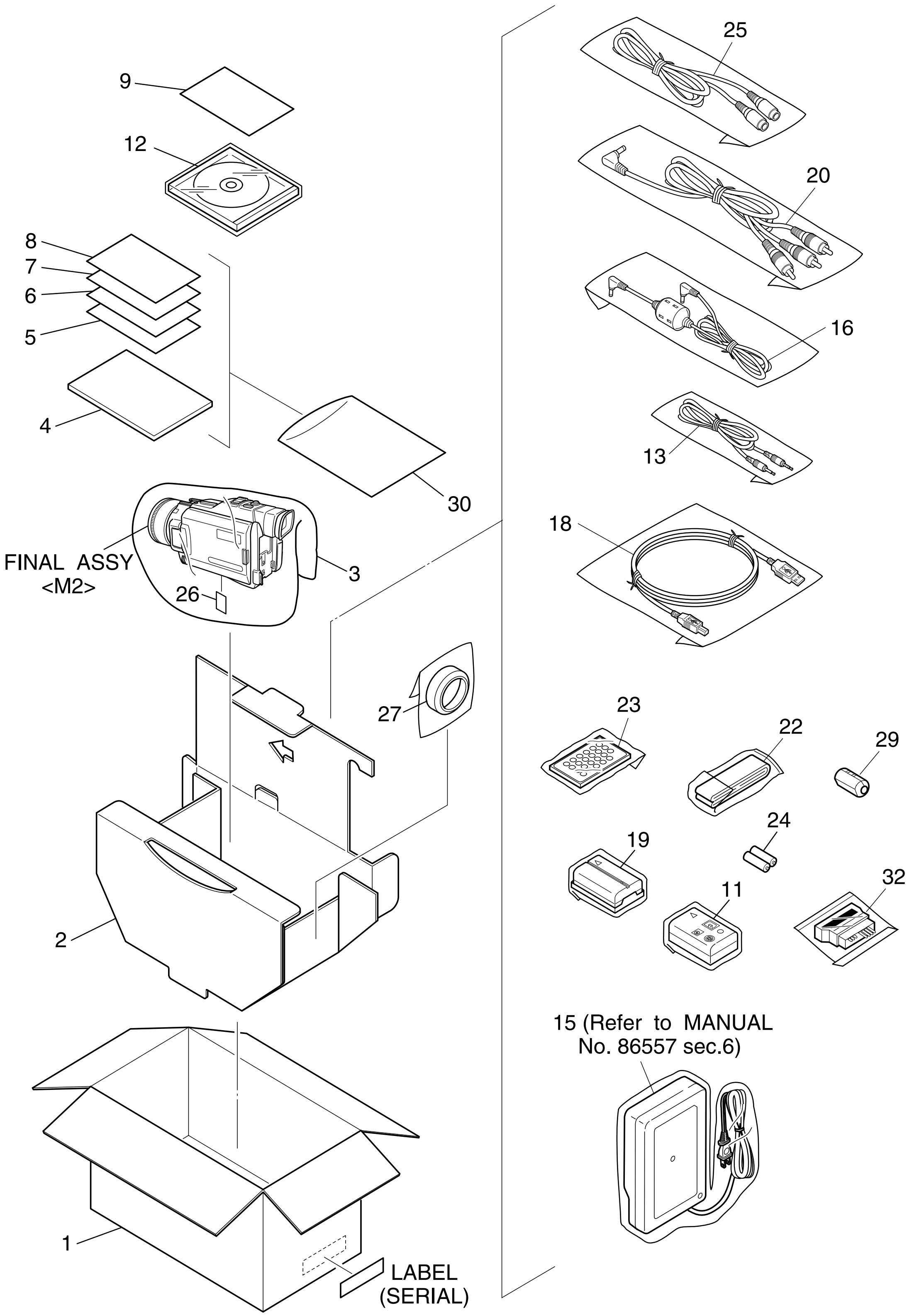
SECTION 5
PARTS LIST

SAFETY PRECAUTION

Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.

5.1 PACKING AND ACCESSORY ASSEMBLY <M1>

The instruction manual to be provided with this product will differ according to the destination.



****

PACKING AND ACCESSORY ASSEMBLY <M1>

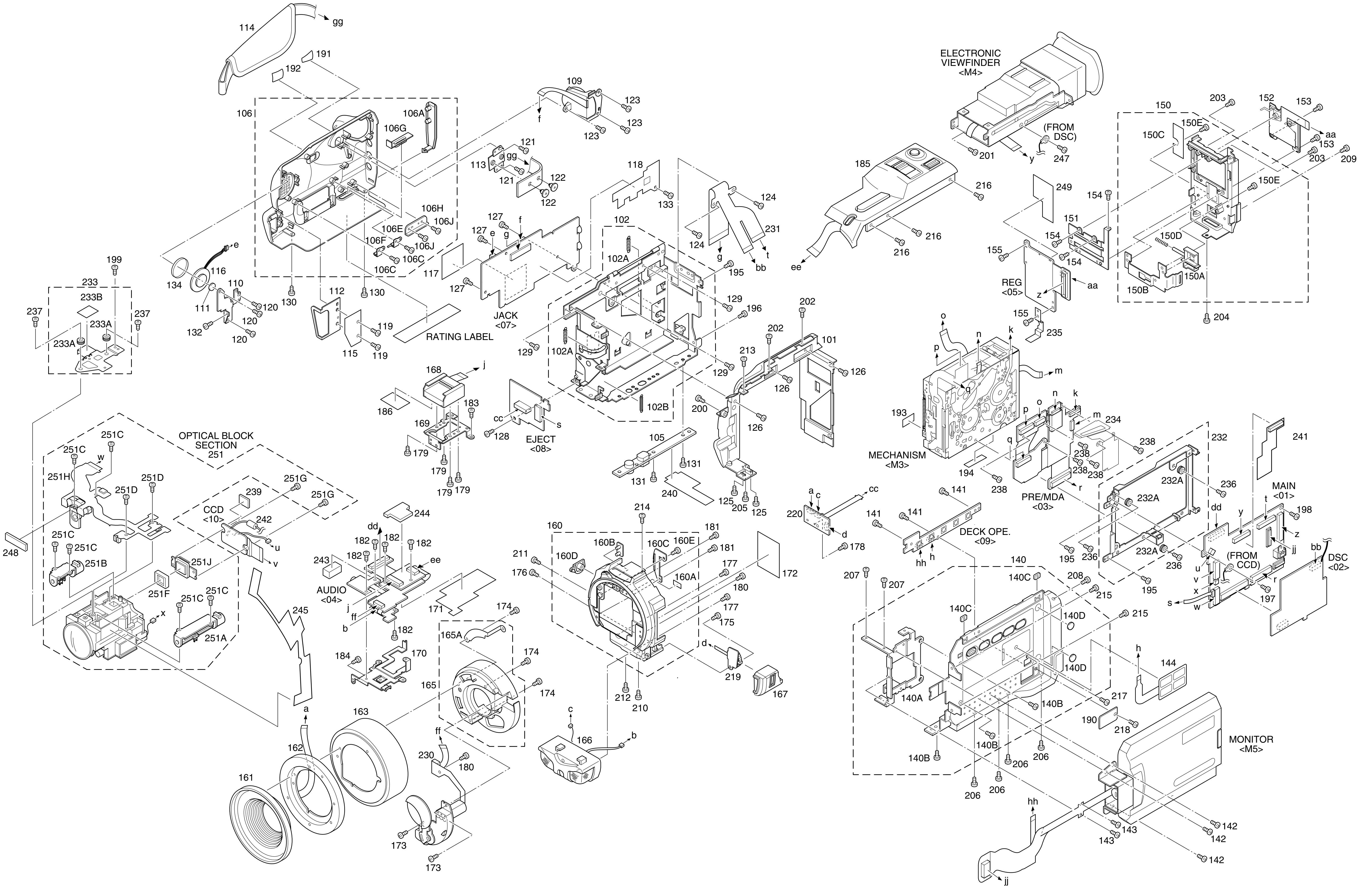
# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	1	LY32164-002A	PACKING CASE,D
		LY32164-003A	PACKING CASE,B
		LY32212-001A	PACKING CASE,C
		LY32212-002A	PACKING CASE,A
	2	LY20666-001B	CUSION
	3	LY30023-020A	POLY BAG
⚠	4	LYT0736-001A	INST.BOOK(EN),B,D
⚠		LYT0736-002A	INST.BOOK(GE),A,C
⚠		LYT0736-003A	INST.BOOK(FR),A,C
⚠		LYT0736-004A	INST.BOOK(DU),A,C
		LYT0736-005A	INST.BOOK(SP),A,C
		LYT0736-006A	INST.BOOK(IT),A,C
⚠		LYT0736-007A	INST.BOOK(DA),A,C
⚠		LYT0736-008A	INST.BOOK(FI),A,C
		LYT0736-009A	INST.BOOK(SW),A,C
		LYT0736-010A	INST.BOOK(NO),A,C
⚠		LYT0736-011A	INST.BOOK(RU),A,C
⚠		LYT0736-012A	INST.BOOK(CZ),A,C
⚠		LYT0736-013A	INST.BOOK(PO),A,C
		LYT0736-014A	INST.BOOK(HU),A,C
	5	LYT0736-015A	INST.BOOK(PRINTER.GE),A,C
		LYT0736-016A	INST.BOOK(PRINTER.DU),A,C
		LYT0736-017A	INST.BOOK(PRINTER.IT),A,C
⚠		LYT0736-018A	INST.BOOK(PRINTER.DA),A,C
		LYT0736-019A	INST.BOOK(PRINTER.FI),A,C
		LYT0736-020A	INST.BOOK(PRINTER.SW),A,C
		LYT0736-021A	INST.BOOK(PRINTER.NO),A,C
		LYT0736-022A	INST.BOOK(PRINTER.RU),A,C
		LYT0736-023A	INST.BOOK(PRINTER.CZ),A,C
⚠		LYT0736-024A	INST.BOOK(PRINTER.PO),A,C
		LYT0736-025A	INST.BOOK(PRINTER.HU),A,C
		LYT0736-028A	INST.BOOK(PRINTER.EN),B,D
		LYT0736-029A	INST.BOOK(PRINTER.FR),A,C
		LYT0736-030A	INST.BOOK(PRINTER.SP),A,C
	6	LYT0739-001A	INST.BOOK(SOFT.5LANG),A,C
		LYT0739-002A	INST.BOOK(SOFT.5LANG),A,C
		LYT0739-003A	INST.BOOK(SOFT.RU),A,C
		LYT0744-001A	INST.BOOK(SOFT.EN),B,D
	7	LYT0162-024A	ACC.LEAFLET
	8	LYT0378-003A	SHEET(AGREMENT)
	9	BT-54013-2	WARRANTY CARD,A,C
		BT-54008-2	GUARANTY CARD,B,D
	11	LY20677-002B	JACK BOX,CU-V504U
	12	LY32210-001A	CD ROM
	13	PEAC0428-150	CABLE ASSY,EDITING CABLE
⚠	15	LY20591-003C	AC APOWER DAPTER/CHARGER,AA-V40EG,A,C
⚠		LY20591-004B	AC APOWER DAPTER/CHARGER,AA-V40EK,B,D
	16	QAM0301-001	DC CORD
	18	QAM0322-001	USB CABLE
⚠	19	LY31587-001A	BATTERY PACK,BN-V408U
	20	QAM0291-001	CABLE ASSY,AUDIO/VIDEO CABLE
	22	LY20186-001A	SHOULDER STRAP
	23	LY20543-002A	REMOTE CONTROL UNIT,RM-V716U
	24	–	BATTERY,AAA(R03),X2
	25	QAM0004-004	S VIDEO CABLE
	26	QAM0262-002	MULTIMEDIA CARD
	27	LY32003-001B	LENS HOOD
	29	QQR1081-002	CORE FILTER
	30	QPA02003506	POLY BAG,A,C
		YQM30061-3	POLY BAG,B,D
	32	QAM0302-001	CABLE ADAPTOR

MODEL	MARK
GR-DV1800EG	A
GR-DV1800EK	B
GR-DV2000EG	C
GR-DV2000EK	D

- **INSTRUCTIONS**

EN .... ENGLISH
GE .... GERMANY
FR .... FRENCH
DU .... DUTCH
SP .... SPANISH
IT .... ITALIAN
DA .... DANISH
FI .... FINNISH
SW .... SWEDISH
NO .... NORWEGIAN
RU .... RUSSIAN
CZ .... CZECH
PO .... POLISH
HU .... HUNGARIAN

5.2 FINAL ASSEMBLY <M2>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123
f
113
121
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g
bb
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VIEWFINDER
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DSC
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SECTION
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251C
251C
w
251H
251D
251D
251C
251C
251B
248
251F
251J
251C
251C
251A
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CCD
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251G
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u
v
245
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182
182
ee
243
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244
171
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163
162
161
a
ff
230
180
173
173
160
214
211
176
160D
160B
160C
160E
160A
181
181
177
180
177
175
d
219
167
172
212
210
c
166
b
a
c
cc
220
d
178
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207
140C
140C
208
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215
140D
140D
140A
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140B
140B
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206
206
217
144
h
190
218
MONITOR
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142
142
142
143
143

****

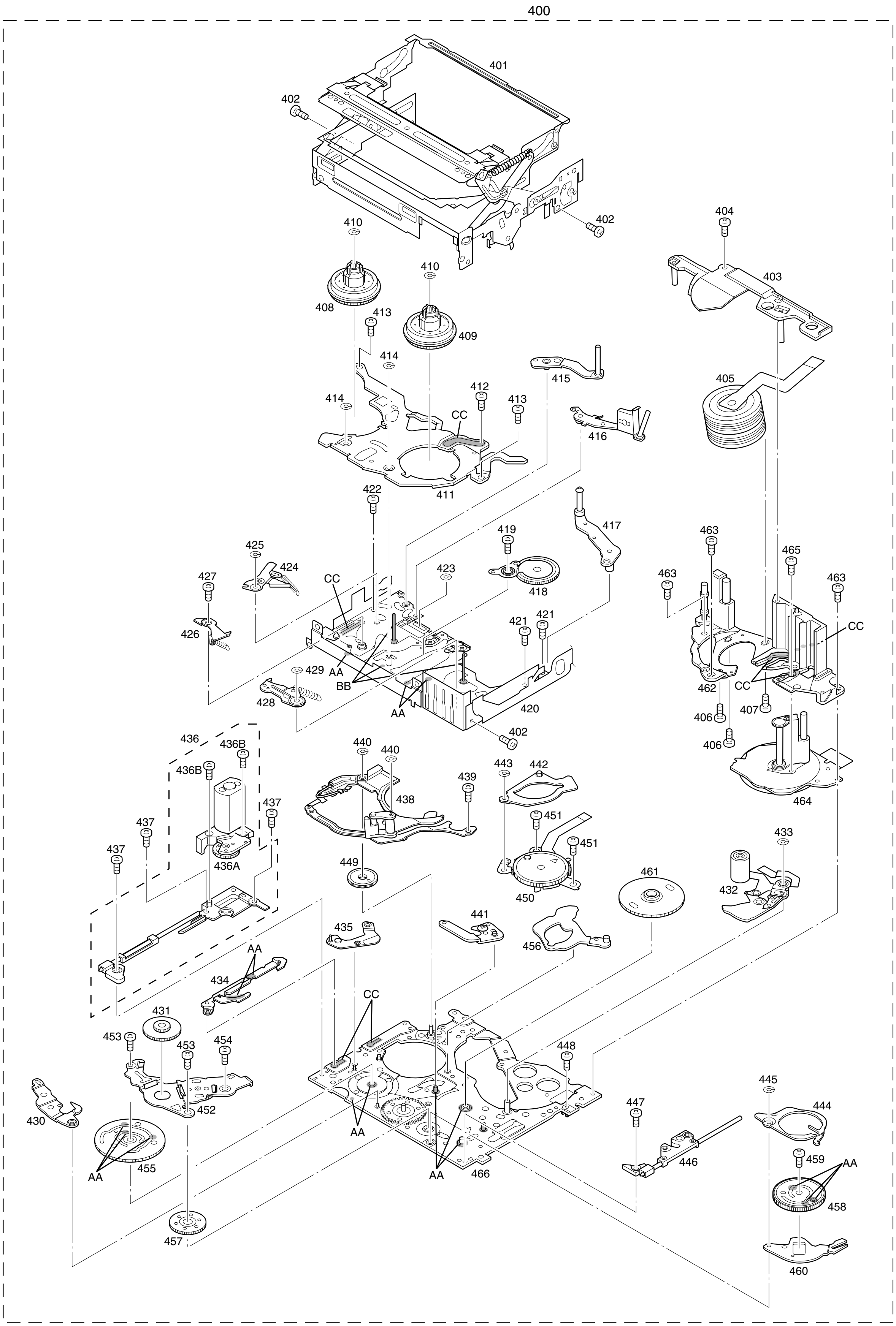
FINAL ASSEMBLY <M2>

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	101	LY10266-001A	LOWER CASE
	102	LY31964-001G	ARM ASSY
	102A	LY30002-046B	COMPRESSION SPRING,X2
	102B	LY42814-001A	TENSION SPRING
	105	LY31984-001B	BASE
⚠	106	LY20657-002C	CASSETTE COVER ASSY
	106A	LY31973-001A	JACK COVER
	106C	LY30018-021A	SPECIAL SCREW,X2
	106E	LY32045-001A	HINGE ASSY(C)
	106F	LY32045-002A	HINGE ASSY(C)
	106G	LY42786-001A	KNOB(LOCK)
	106H	LY42787-001A	HOLDER(LOCK)
	106J	LY30018-037A	SPECIAL SCREW,X2
	109	LY20653-002A	POWER OPE.UNIT
	110	LY31977-001A	HOLDER(SPK)
	111	LY42918-001B	SPACER(SPK)
	112	LY42788-001B	HOOK
	113	LY42789-001B	BRACKET(GRIP BELT)
	114	LY20658-002A	GRIP BELT
	115	LY43019-001A	SHEET(GRIP BELT)
	116	QAS0063-001	SPEAKER
	117	LY42878-001C	SHEET(MMC)
	118	LY42881-001C	SPACER(JACK)
	119	QYSLSF2040D	SCREW,X2
	120	LY30018-021A	SPECIAL SCREW,X3
	121	QYSLSF2040D	SCREW,X2
	122	LY30018-0C7A	SPECIAL SCREW,X2
	123	LY30018-0B7A	SPECIAL SCREW,X3
	124	LY30018-005A	SPECIAL SCREW,X2
	125	LY30018-080A	SPECIAL SCREW,X2
	126	LY30018-006B	SPECIAL SCREW,X3
	127	QYSPSPT1720R	SCREW,X3
	128	QYSPSPT1720R	SCREW
	129	LY30018-0B7A	SPECIAL SCREW,X3
	130	LY30018-038A	SPECIAL SCREW,X2
	131	LY30018-006B	SPECIAL SCREW,X2
	132	LY30018-032A	SPECIAL SCREW
	133	LY30018-0B7A	SPECIAL SCREW
	134	LY40301-001A	SPACER(SPK)
⚠	140	LY20659-003A	UPPER CASE ASSY
	140A	LY31981-001A	BRACKET(HINGE)
	140B	LY30018-0A8A	SPECIAL SCREW,X3
	140C	LY40162-001A	BRACKET,X2
	140D	LY40664-001A	SPACER,X2
	141	LY30018-020A	SPECIAL SCREW,X3
	142	LY30018-042A	SPECIAL SCREW,X3
	143	LY30018-055A	SPECIAL SCREW,X2
	144	LY32051-002A	SUB OPE.UNIT
	150	LY31986-002B	REAR COVER ASSY
	150A	LY31988-001D	KNOB(B.RELEASE)
	150B	LY31989-001A	BRACKET(B.RELEASE)
	150C	LY42792-001A	SHEET(REAR)
	150D	LY30002-048A	COMPRESSION SPRING
	150E	LY30018-066A	SPECIAL SCREW,X2
	151	LY31987-001A	BRACKET(TERM)
	152	LY20660-001C	BATTERY TERMINAL UNIT
	153	LY30018-038A	SPECIAL SCREW,X2
	154	LY30018-019A	SPECIAL SCREW,X3
	155	LY30018-060A	SPECIAL SCREW,X2
	160	LY20661-002A	FRONT COVER ASSY
	160A	LY30029-0B1A	SPACER(A)
	160B	LY31992-001A	LEVER(P/S)
	160C	LY31993-001A	HOLDER(P/S)
	160D	LY31995-001A	COVER(JACK)
	160E	LY30018-0A7A	SPECIAL SCREW
	161	LY32009-001B	HOOD
	162	LY20654-001A	FOCUS UNIT
	163	LY31996-002A	COVER(OP)
	165	LY42840-001B	FRAME ASSY
	165A	LY42841-001B	SHEET(EARTH)
	166	LY20664-001B	MICROPHONE
	167	LY31997-002A	COVER(MENU)
	168	LY42949-001A	SHOE ASSY
	169	LY31999-001A	BRACKET(H.S)
	170	LY20665-001A	BRACKET(AUDIO)
	171	LY42913-001A	SHEET(AUDIO)
	172	LY42920-001A	SHEET(FRONT)
	173	LY30018-021A	SPECIAL SCREW,X2
	174	LY30018-0A1A	SPECIAL SCREW,X3
	175	LY30018-021A	SPECIAL SCREW
	176	LY30018-037A	SPECIAL SCREW
	177	LY30018-037A	SPECIAL SCREW,X2
	178	LY30018-021A	SPECIAL SCREW
	179	LY30018-031A	SPECIAL SCREW,X4
	180	LY30018-052A	SPECIAL SCREW,X2
	181	LY30018-0C1A	SPECIAL SCREW,X2
	182	LY30018-032A	SPECIAL SCREW,X5
	183	LY30018-032A	SPECIAL SCREW
	184	LY30018-021A	SPECIAL SCREW
	185	LY10262-002A	ZOOM OPE.UNIT
	186	LY30029-0D1A	SPACER(A)
	190	LY41393-004A	COVER(JIG CONN)
	191	LY42790-001B	COVER(CASS)
	192	LY32039-001B	COVER(CASS.R)
	193	LY40699-002A	LABEL(PUSH)
	194	LY32001-002A	LABEL(HOUSING)
	195	QYSPSPT1715Z	SCREW,X3
	196	LY30018-017A	SPECIAL SCREW
	197	LY42424-001A	SPECAL SCREW
	198	LY30019-002A	SPECIAL SCREW
	199	LY30018-006B	SPECIAL SCREW
	200	LY30018-006B	SPECIAL SCREW
	201	LY30018-059A	SPECIAL SCREW
	202	LY30018-006B	SPECIAL SCREW,X2
	203	LY30018-0C2A	SPECIAL SCREW,X2
	204	LY30018-011A	SPECIAL SCREW
	205	LY30018-044A	SPECIAL SCREW
	206	LY30018-044A	SPECIAL SCREW,X4
	207	LY30018-006B	SPECIAL SCREW,X2
	208	LY30018-044A	SPECIAL SCREW
	209	LY30018-011A	SPECIAL SCREW
	210	LY30018-044A	SPECIAL SCREW
	211	LY30018-059A	SPECIAL SCREW
	212	LY30018-063A	SPECIAL SCREW
	213	LY30018-006B	SPECIAL SCREW
	214	LY30018-006B	SPECIAL SCREW
	215	LY30018-059A	SPECIAL SCREW,X2
	216	LY30018-006B	SPECIAL SCREW,X3
	217	LY30018-006B	SPECIAL SCREW
	218	LY30018-026A	SPECIAL SCREW
	219	LY32072-001A	MENU SW UNIT
	220	LY32071-001A	FRONT FPC UNIT
	230	LY20676-001C	LENS SHUTTER ASSY
	231	QAL0260-001	FPC,JACK CN301
	232	LY32066-001A	BRACKET(MECHA)ASSY
	232A	LY42796-001A	BUSH,X3
	233	LY32067-001B	BRACKET(OP)ASSY
	233A	LY42796-001A	BUSH,X2
	233B	LY30029-0C6A	SPACER(A)
	234	LY32012-001A	SHIELD COVER(PR)
	235	LY42889-001A	SHIELD(REG)
	236	LY30019-028A	SPECIAL SCREW,X3
	237	LY30019-029B	SPECIAL SCREW,X2
	238	QYSPSPT1414M	SCREW,X5
	239	LY30029-0E6A	SPACER(A)
	240	LY43002-001A	HEAT SINK(BASE)
	241	LY42972-001A	HEAT SINK(MAIN)
	242	LY32194-001B	LUG WIRE ASSY
	243	LY30029-0C8A	SPACER(A)
	244	LY42952-001A	SHEET(AUDIO)
	245	LY42951-001B	SHEET(OP)
	247	QYSPSPT1712M	SCREW
	248	LY30029-0F3A	SPACER(A)
	249	LY42978-001B	SPACER(REG PWB)

- OPTICAL BLOCK SECTION -

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	251	J9C-201A	OPTICAL BLOCK ASSY
	251A	LY31901-001A	ZOOM MOTOR
	251B	LY31902-001A	FOCUS MOTOR
	251C	LY30727-002A	SCREW,X6
	251D	LY30727-001A	SCREW,X2
	251F	LY31900-001A	SPACER RUBBER
	251G	QYSPSGU1750Z	SCREW,X2
	251H	LY31903-001A	IRIS MOTOR UNIT
	251J	LYH40136-002A	CCD BASE ASSY

5.3 MECHANISM ASSEMBLY <M3>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Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-P	AA
Oil	YTU94027	BB
Grease (HANARL)	RX-410R	CC

NOTE: The section marked in **AA** and **BB**, **CC** indicate lubrication and greasing areas.

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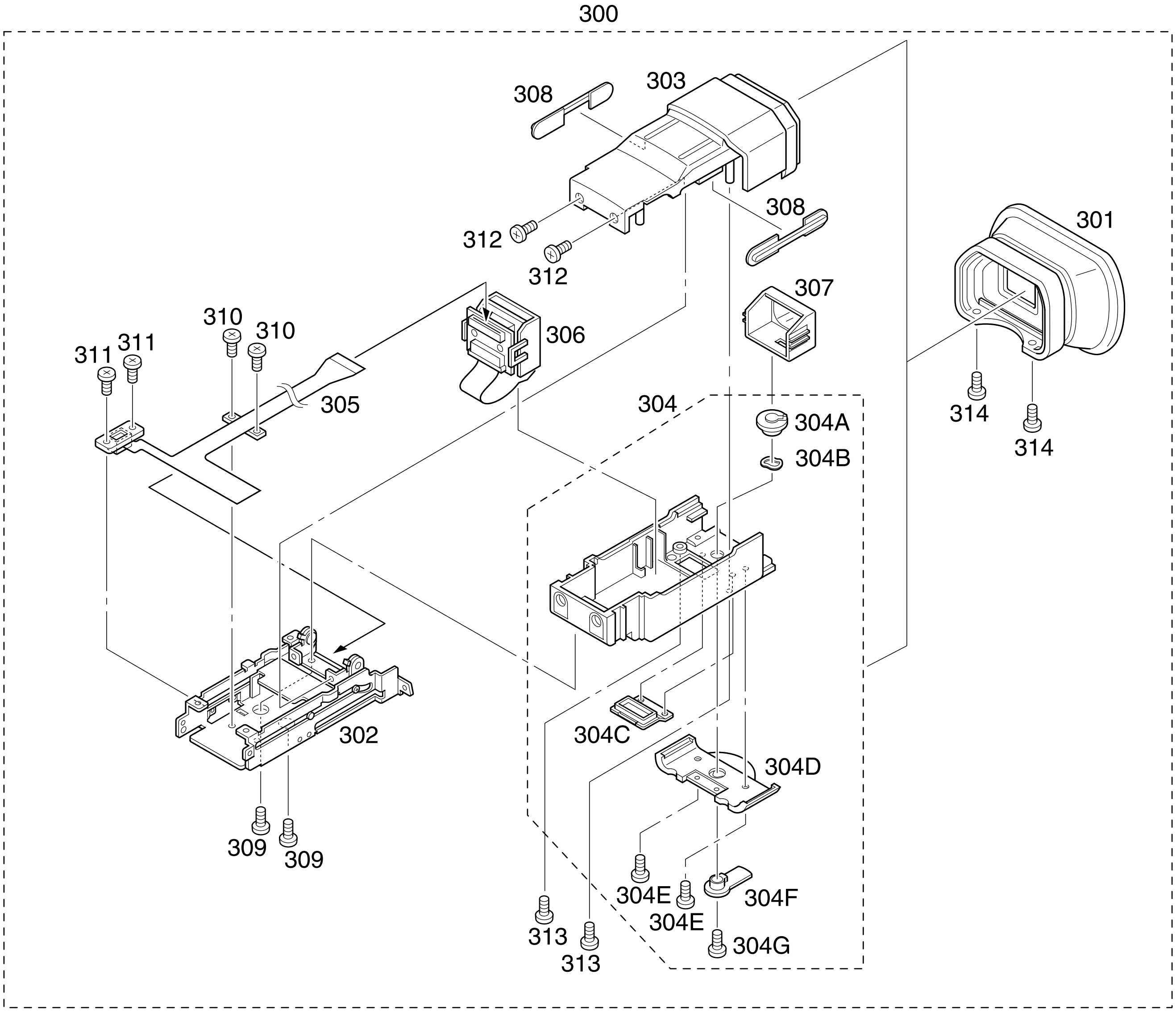
MECHANISM ASSEMBLY <M3>

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION
400	YMA0029A	MECHA(A)ASSY
401	LY31543-002B	CASSETTE HOUSING ASSY
402	YQ43893-8	MINI SCREW,X3
403	LY31542-001D	UPPER BASE ASSY
404	YQ43893	MINI SCREW
405	YDV2096A	DRUM ASSY
406	LY42820-001A	DAMPER SCREW ASSY,X2
407	LY42820-002A	DAMPER SCREW ASSY
408	LY31538-001B	REEL DISK ASSY
409	LY31538-002B	REEL DISK ASSY
410	YQ44246	SLIT WASHER,X2
411	LY10217-001A	REEL COVER ASSY
412	LY42120-001A	MINI SCREW
413	LY41945-003A	MINI SCREW,X2
414	YQ44246	SLIT WASHER,X2
415	LY42025-001A	TENSION ARM ASSY
416	LY31535-001A	SLANT POLE ARM ASSY
417	LY42031-001C	TU ARM ASSY
418	LY31531-001A	SWING ARM ASSY
419	YQ43893	MINI SCREW
420	LY20530-001C	SLIDE DECK F.ASSY
421	YQ43893	MINI SCREW,X2
422	LY43023-001A	MINI SCREW
423	YQ44246	SLIT WASHER
424	LY31533-001C	PAD ARM ASSY
425	YQ44246	SLIT WASHER
426	LY42014-001A	SUP BRAKE ASSY
427	YQ43893	MINI SCREW
428	LY42016-001A	TU BRAKE ASSY
429	YQ44246	SLIT WASHER
430	LY41959-001A	TENSION CONTROL LEVER ASSY
431	LY31525-001A	CENTER GEAR
432	LY31516-001B	PINCH ROLLER ARM FINAL ASSY
433	YQ44246	SLIT WASHER
434	LY41956-001B	TENSION CONTROL PLATE ASSY
435	LY41962-001A	BRAKE CONTROL LEVER ASSY
436	LY20525-001D	MOTOR BRACKET ASSY
436A	QAR0138-001	LOADING MOTOR
436B	LY41940-001A	TAPPING SCREW,X2
437	YQ43893	MINI SCREW,X3
438	LY20528-001B	GUIDE RAIL ASSY
439	YQ43893	MINI SCREW
440	YQ44246	SLIT WASHER,X2
441	LY31498-002B	SLIDE LEVER2 ASSY
442	LY41965-001A	LOADING PLATE ASSY
443	YQ44246	SLIT WASHER
444	LY31522-001A	EJECT LEVER
445	YQ44246	SLIT WASHER
446	LY41929-001A	BASE R ASSY
447	YQ43893	MINI SCREW
448	LY41945-001A	MINI SCREW
449	LY41930-001A	MODE GEAR
450	QSW0876-001	ROTARY ENCODER
451	YQ43893	MINI SCREW,X2
452	LY31524-001A	GEAR COVER ASSY
453	YQ43893	MINI SCREW,X2
454	YQ43893-4	MINI SCREW
455	LY41948-001A	MAIN CAM ASSY
456	LY41941-001A	SLIDE ARM ASSY
457	LY41951-001A	CONNECT GEAR 2
458	LY41954-001A	SUB CAM ASSY
459	LY42120-001A	MINI SCREW
460	LY41952-001A	CONTROL ARM ASSY
461	LY31523-001A	REEL GEAR 1
462	LY31508-001B	DRUM BASE ASSY
463	QYSPSPU1425M	SCREW,X3
464	QAR0142-001	CAPSTAN MOTOR
465	YQ43893	MINI SCREW
466	LY10210-001A	MAIN DECK ASSY

5.4 ELECTRONIC VIEWFINDER ASSEMBLY <M4>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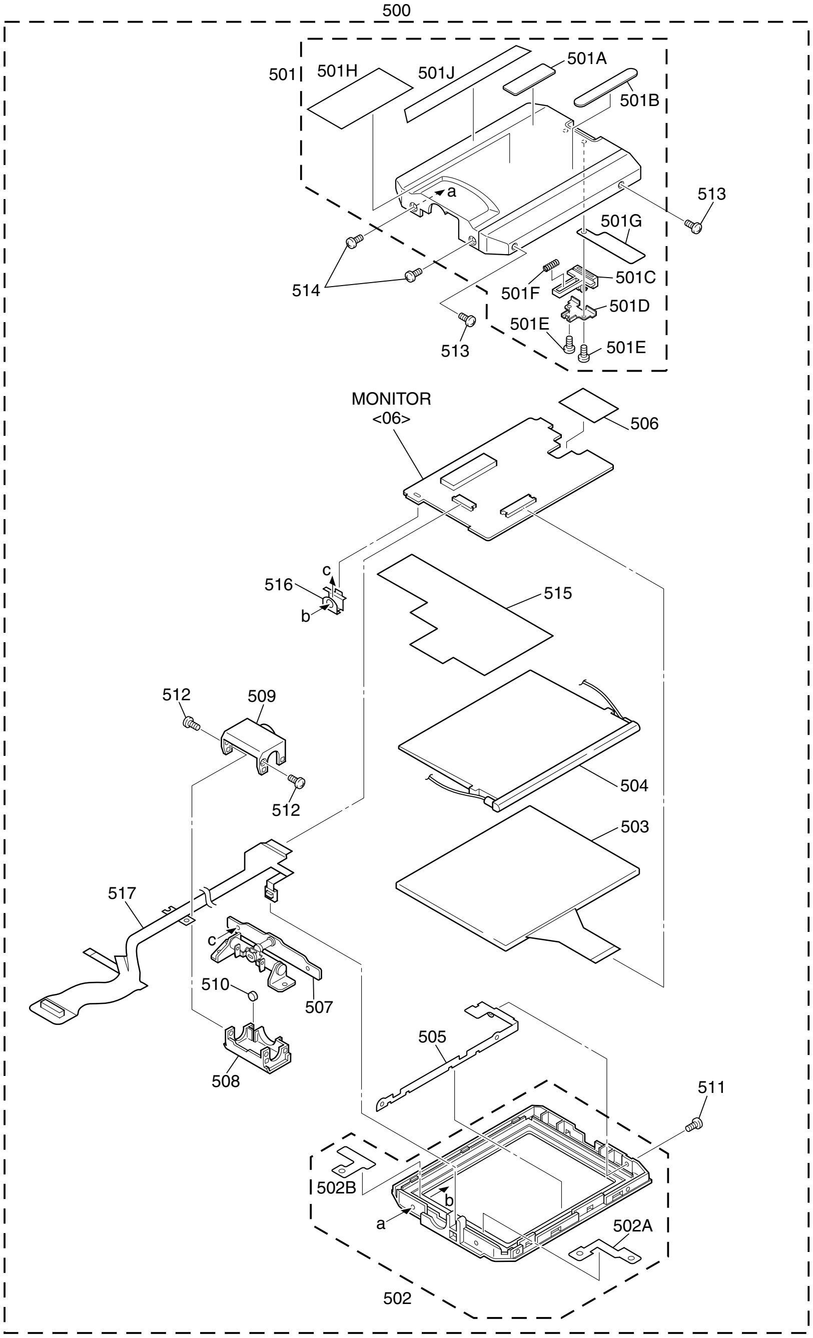
ELECTRONIC VIEWFINDER ASSEMBLY <M4>

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION
300	LY20671-002C	VF UNIT
301	PTY20671-001	EYE CAP
302	PTY20671-011	BRACKET(VF)ASSY
303	PTY20671-021	UPPER CASE ASSY
304	PTY20671-031	BOTTOM CASE ASSY
304A	PTY20671-032	LINK(VF)
304B	PTY20671-033	WAVE WASHER
304C	PTY20671-034	CAP
304D	PTY20671-035	COVER(CAP)
304E	PTY30018-0C8A	SCREW,X2
304F	PTY20671-037	LEVER(VF)
304G	LY30018-063A	SCREW
305	LY32070-001B	VF FPC ASSY
306	PTY20671-041	LCD UNIT
307	PTY20671-051	LENS ASSY
308	PTY20671-061	RIB,X2
309	LY30018-084A	SCREW,X2
310	LY30018-031A	SCREW,X2
311	LY30018-006B	SCREW,X2
312	LY30018-067B	SCREW,X2
313	LY30018-084A	SCREW,X2
314	LY30019-034A	SCREW,X2

5.5 MONITOR ASSEMBLY <M5>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MONITOR ASSEMBLY <M5>

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION
⚠	500	LYH20192-003A	MONITOR ASSY,C,D
⚠		LYH20192-004A	MONITOR ASSY,A,B
⚠	501	LY32013-003C	MONITOR COVER ASSY,C,D
⚠		LY32013-004B	MONITOR COVER ASSY,A,B
	501A	LY42883-002A	MARK
	501B	LY42798-001A	MARK
	501C	LY32014-001A	KNOB(LOCK)
	501D	LY42799-001A	BRACKET(LOCK)
	501E	LY30018-019A	SPECIAL SCREW,X2
	501F	LY30002-047A	COMPRESSION SPRING
	501G	LY42800-001A	SHEET(LOCK)
	501H	LY42980-002A	STICKER(2),C,D
		LY42980-003A	STICKER(2),A,B
	501J	LY42979-002B	STICKER(1)
	502	LY32015-001D	MONITOR CASE ASSY
	502A	LY42801-001B	SHEET(EARTH.1)
	502B	LY42971-001B	SHEET(EARTH3)
	503	QLD0115-003	LCD MODULE
	504	QLL0091-001	BACK LIGHT
	505	LY32016-001A	BRACKET(MONITOR CASE)
	506	LY30029-0C4A	SPACER(A)
	507	LY32017-001C	HINGE ASSY
	508	LY32018-001A	HINGE COVER(U)
	509	LY32019-001A	HINGE COVER(L)
	510	LY42355-001A	MAGNET
	511	LY30018-053A	SPECIAL SCREW
	512	LY30018-0A2A	SPECIAL SCREW,X2
	513	LY30018-053A	SPECIAL SCREW,X2
	514	LY30018-028A	SPECIAL SCREW,X2
	515	LY42843-001C	MONITOR SHIELD PLATE
	516	LY41726-001A	PLATE(EARTH)
	517	LY20681-001A	FPC ASSY(LCD)

5.6 ELECTRICAL PARTS LIST

MODEL	MARK	MODEL	MARK
GR-DV1800EG	A	GR-DV2000EG	C
GR-DV1800EK	B	GR-DV2000EK	D

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MAIN BOARD ASSEMBLY <01>

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	PW	YB10301C-03	MAIN BOARD ASSY,C,D	
		YB10301D-03	MAIN BOARD ASSY,A,B	
	IC1001	YQ44893A	CSP IC ASSY,C,D	
		YQ44895A	CSP IC ASSY,A,B	
	IC1002	RS5C314	IC	
	IC1003	X25330S8I-2.5-X	IC	
		or AT25320N-10SI-X	IC	
		or 25LC320-I/SN-X	IC	
	IC1004	TC7W08FU	IC(DIGITAL)	
	IC1005	TC7W66FU	IC(DIGITAL)	
	IC1007	MB90097PFV139	IC(MICRO C ROM)	
	IC1008	TC74VHC08FT	IC(DIGITAL)	
	IC1201	BA6417F	IC	
	IC1301	TC7SH32FU	IC(DIGITAL)	
	IC1302	TC7S02FU	IC(DIGITAL)	
	IC1401	YQ44894A	CSP IC ASSY	
	IC1403	TC7W53FU	IC(DIGITAL)	
		or SN74AHC2G53T	IC	
	IC3001	JCY0133	IC	
	IC3002	JCY0136	IC	
	IC3302	TLC2940IPW	IC	
	IC3701	NJM2538V	IC	
	IC3702	MM1385HN	IC	
	IC3901	JCP8029	IC,C,D	
	IC3903	SN74AHC1G04K	IC,C,D	
		or TC7S04FU	IC(DIGITAL),C,D	
	IC3951	MM1504XN	IC,C,D	
	IC4201	HD49325BHF	IC	
	IC4202	RH5RZ31CA	IC	
	IC4301	YQ44871A	CSP ASSY	
	IC4302	MM1385NN	IC	
	IC4401	BU2501FV	IC	
	IC4802	TA75W01FU	IC	
	IC4803	TA75W01FU	IC	
	IC4804	NJM3414AV	IC	
	IC4805	MM6564XFBE	IC	
	IC4806	TC7W00FK	IC	
	IC4807	TC7W66FK	IC	
	IC4808	TC7S66FU	IC(DIGITAL)	
	IC4851	UPD16879GS	IC	
	IC4901	TA75W01FU	IC	
	IC4902	TA75W01FU	IC	
	IC4903	MM6564XFBE	IC	
	IC4904	NJM3414AV	IC	
	IC5001	JCY0138	IC	
	IC5002	MM1385DN	IC	
	IC5004	W194-70G-X	IC	
	IC6001	S-80842ANNP-W	IC	
	IC6002	S-817A33ANB-W	IC	
	IC6003	S-814A30AMC-W	IC	
	IC6004	S-80826ANNP-W	IC	
	Q1001	DTC143EE	TRANSISTOR	
		or RN1101	TRANSISTOR	
		or UN921LJ	TRANSISTOR	
	Q1002	2SC4617/QR/-X	TRANSISTOR	
	Q1003	DTC124EE	TRANSISTOR	
		or RN1103	TRANSISTOR	
		or UN9212J	TRANSISTOR	
	Q1301	2SC4617/RS/-X	TRANSISTOR	
	Q1401	DTA114EE	TRANSISTOR	
		or RN2102	TRANSISTOR	
		or UN9111J	TRANSISTOR	
	Q1402	UMC3N	TRANSISTOR	
	Q1403	UMC3N	TRANSISTOR	
	Q1404	DTC144EE	TRANSISTOR	
		or UN9213J	TRANSISTOR	
		or RN1104	TRANSISTOR	
	Q2001	NDS352AP	MOS FET	
	Q2002	2SK1830	MOS FET	
	Q3701	DTC144EE	TRANSISTOR	
		or UN9213J	TRANSISTOR	
		or RN1104	TRANSISTOR	
	Q3702	2SC4617/RS/-X	TRANSISTOR	
	Q3951	UMZ1N	PAIR TRANSISTOR,C,D	
	Q3952	DTC144EE	TRANSISTOR,C,D	
		or UN9213J	TRANSISTOR,C,D	
		or RN1104	TRANSISTOR,C,D	
	Q3953	UMZ1N	PAIR TRANSISTOR,C,D	
	Q3954	2SC4617/RS/-X	TRANSISTOR,C,D	
	Q4351	2SA1832FT/G/-X	TRANSISTOR	
	Q4352	UMT2N	PAIR TRANSISTOR	
	Q4353	UMT2N	PAIR TRANSISTOR	
	Q4354	2SA1832FT/G/-X	TRANSISTOR	
	Q4801	2SC4655/BC/-X	TRANSISTOR	
	Q4802	2SC4617/RS/-X	TRANSISTOR	
	Q4803	DTC144EE	TRANSISTOR	
		or UN9213J	TRANSISTOR	
		or RN1104	TRANSISTOR	
	Q4804	DTA144EE	TRANSISTOR	
		or RN2104	TRANSISTOR	
		or UN9113J	TRANSISTOR	
	Q4851	2SC4617/RS/-X	TRANSISTOR	
	Q4901	2SC4655/BC/-X	TRANSISTOR	
	Q6001	CPH3304	MOS FET	
	Q6002	2SK3019	MOS FET	
		or 2SK1830	MOS FET	
	Q6003	2SJ347	MOS FET	
	Q6004	2SK3019	MOS FET	
		or 2SK1830	MOS FET	
	Q6005	DTC144EE	TRANSISTOR	
		or UN9213J	TRANSISTOR	
		or RN1104	TRANSISTOR	
	Q6006	CPH3304	MOS FET	
	Q6007	RN47A3	TRANSISTOR	
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	D1201	DAP222	DIODE	
	D1301	RB715F	SB DIODE	
	D2001	EMZ6.8N	ZENER DIODE	
	D2002	EMZ6.8N	ZENER DIODE	
	D2003	EMZ6.8N	ZENER DIODE	
	D2004	EMZ6.8N	ZENER DIODE	
	D2005	SBS006	SB DIODE	
	D3002	EC2C01C	VARI CAP DIODE	
	D3301	EC2C01C	VARI CAP DIODE	
	D3302	EC2C01C	VARI CAP DIODE	
	D4101	1SS355	DIODE	
	D4801	DAN222	DIODE	
	D4802	DAN222	DIODE	
	D4803	DAN222	DIODE	
⚠	D6001	RB706D-40-X	SB DIODE	
	D6002	RB715F	SB DIODE	
	R1001	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R1002	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1003	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1004	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1005	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1006	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1007	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1008	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1009	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R1010	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
R1011	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1012	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1013	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1014	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1015	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1016	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1017	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1018	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1019	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1020	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1021	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1023	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1024	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1025	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1026	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1027	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1028	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1029	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1030	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1031	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1032	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1033	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1034	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R1035	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
R1036	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
R1037	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
R1038	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1040	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1041	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1042	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1043	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1044	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1045	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1046	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1047	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1048	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1049	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1050	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R1051	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R1052	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
R1056	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
R1057	NRSA6AJ-751W	MG RESISTOR,A,B	750Ω,1/16W
R1058	NRSA6AJ-751W	MG RESISTOR,A,B	750Ω,1/16W
R1059	NRSA6AJ-751W	MG RESISTOR,A,B	750Ω,1/16W
R1060	NRSA6AJ-102W	MG RESISTOR,A,B	1kΩ,1/16W
R1061	NRSA6AJ-102W	MG RESISTOR,A,B	1kΩ,1/16W
R1062	NRSA6AJ-102W	MG RESISTOR,A,B	1kΩ,1/16W
R1063	NRSA6AJ-0R0W	MG RESISTOR,A,B	0Ω,1/16W
R1064	NRSA6AJ-0R0W	MG RESISTOR,A,B	0Ω,1/16W
R1065	NRSA6AJ-0R0W	MG RESISTOR,A,B	0Ω,1/16W
R1066	NRSA6AJ-0R0W	MG RESISTOR,C,D	0Ω,1/16W
R1067	NRSA6AJ-0R0W	MG RESISTOR,C,D	0Ω,1/16W
R1068	NRSA6AJ-0R0W	MG RESISTOR,C,D	0Ω,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R1069	NRSA6AJ-0R0W	MG RESISTOR,C,D	0Ω,1/16W
R1070	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1071	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1072	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R1073	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R1074	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1075	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1076	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1077	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1078	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1079	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1080	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1081	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R1082	NRSA6AJ-393W	MG RESISTOR	39kΩ,1/16W
R1083	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1084	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1085	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
R1086	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
R1087	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1088	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1089	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1090	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1091	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1092	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R1093	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1094	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W
R1095	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
R1096	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
R1097	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1098	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1099	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1100	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1102	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1103	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1105	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1110	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1111	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1112	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1113	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1114	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1115	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1116	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1117	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1201	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1202	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R1301	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1303	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1401	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1402	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R1403	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R1404	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1408	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1409	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
R1413	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
R1414	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1415	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1416	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1417	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1418	NRSA6AJ-221W	MG RESISTOR	220Ω,1/16W
R1419	NRSA6AJ-221W	MG RESISTOR	220Ω,1/16W
R1420	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1422	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R1423	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1424	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1425	NRVA6AD-753W	CMF RESISTOR	75kΩ,1/16W
R1426	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
R1429	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1430	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1437	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1438	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1439	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1440	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1441	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1442	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1443	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1444	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1445	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R2001	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R2002	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2003	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2005	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2007	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2008	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2009	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2010	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2011	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2012	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2013	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2014	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R2015	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2017	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2018	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2019	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2020	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3001	NRSA6AJ-151W	MG RESISTOR	150Ω,1/16W
R3002	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
R3003	NRSA6AJ-151W	MG RESISTOR	150Ω,1/16W
R3004	NRSA6AJ-562W	MG RESISTOR	5.6kΩ,1/16W
R3005	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R3006	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R3007	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R3008	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3009	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3015	NRSA6AJ-242W	MG RESISTOR	2.4kΩ,1/16W
R3016	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W
R3017	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W
R3018	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R3019	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R3020	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R3021	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R3022	NRVA6AD-512W	CMF RESISTOR	5.1kΩ,1/16W
R3023	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3024	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R3025	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R3026	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R3027	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R3029	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R3030	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W
R3034	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3044	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3051	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3052	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3053	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3054	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3055	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3059	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3060	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
R3061	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3062	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3063	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3064	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3311	NRVA6AD-222W	CMF RESISTOR	2.2kΩ,1/16W
R3313	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R3314	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R3315	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3318	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R3319	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R3331	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3332	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3333	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3334	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3335	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3336	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3337	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3338	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R3339	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3340	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3341	NRSA6AJ-221W	MG RESISTOR	220Ω,1/16W
R3701	NRSA6AJ-225W	MG RESISTOR	2.2MΩ,1/16W
R3702	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3703	NRSA6AJ-203W	MG RESISTOR	20kΩ,1/16W
R3704	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3706	NRSA6AJ-121W	MG RESISTOR	120Ω,1/16W
R3707	NRSA6AJ-121W	MG RESISTOR	120Ω,1/16W
R3708	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3709	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R3710	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3712	NRSA6AJ-680W	MG RESISTOR	68Ω,1/16W
R3713	NRSA6AJ-680W	MG RESISTOR	68Ω,1/16W
R3714	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R3715	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R3716	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R3901	NRVA6AD-821W	CMF RESISTOR,C,D	820Ω,1/16W
R3902	NRVA6AD-273W	CMF RESISTOR,C,D	27kΩ,1/16W
R3903	NRVA6AD-153W	CMF RESISTOR,C,D	15kΩ,1/16W
R3904	NRVA6AD-821W	CMF RESISTOR,C,D	820Ω,1/16W
R3951	NRVA6AD-561W	CMF RESISTOR,C,D	560Ω,1/16W
R3953	NRVA6AD-152W	CMF RESISTOR,C,D	1.5kΩ,1/16W
R3954	NRSA6AJ-222W	MG RESISTOR,C,D	2.2kΩ,1/16W
R3955	NRSA6AJ-102W	MG RESISTOR,C,D	1kΩ,1/16W
R3956	NRSA6AJ-474W	MG RESISTOR,C,D	470kΩ,1/16W
R3961	NRVA6AD-561W	CMF RESISTOR,C,D	560Ω,1/16W
R3962	NRSA6AJ-822W	MG RESISTOR,C,D	8.2kΩ,1/16W
R3963	NRVA6AD-182W	CMF RESISTOR,C,D	1.8kΩ,1/16W
R3964	NRSA6AJ-183W	MG RESISTOR,C,D	18kΩ,1/16W
R3965	NRSA6AJ-183W	MG RESISTOR,C,D	18kΩ,1/16W
R3966	NRSA6AJ-681W	MG RESISTOR,C,D	680Ω,1/16W
R3967	NRSA6AJ-821W	MG RESISTOR,C,D	820Ω,1/16W
R3968	NRSA6AJ-821W	MG RESISTOR,C,D	820Ω,1/16W
R3969	NRSA6AJ-102W	MG RESISTOR,C,D	1kΩ,1/16W
R4101	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R4203	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4204	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R4211	NRSA6AJ-221W	MG RESISTOR	220Ω,1/16W
R4212	NRSA6AJ-221W	MG RESISTOR	220Ω,1/16W
R4213	NRSA6AJ-221W	MG RESISTOR	220Ω,1/16W
R4214	NRSA6AJ-221W	MG RESISTOR	220Ω,1/16W
R4215	NRSA6AJ-221W	MG RESISTOR	220Ω,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R4216	NRSA6AJ-221W	MG RESISTOR	220Ω,1/16W
R4217	NRSA6AJ-221W	MG RESISTOR	220Ω,1/16W
R4218	NRSA6AJ-221W	MG RESISTOR	220Ω,1/16W
R4219	NRSA6AJ-221W	MG RESISTOR	220Ω,1/16W
R4220	NRSA6AJ-221W	MG RESISTOR	220Ω,1/16W
R4302	NRSA6AJ-330W	MG RESISTOR	33Ω,1/16W
R4303	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R4304	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R4305	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R4306	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R4307	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4308	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4310	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4313	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4314	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4315	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4316	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4317	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4318	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R4320	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4321	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4322	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R4323	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R4328	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4329	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4330	NRSA6AJ-470W	MG RESISTOR	47Ω,1/16W
R4331	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4332	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4333	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4334	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4335	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4337	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R4342	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4343	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4344	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4345	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4346	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4347	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4348	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4349	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4351	NRSA6AJ-0R0W	MG RESISTOR,A,B	0Ω,1/16W
R4352	NRSA6AJ-0R0W	MG RESISTOR,A,B	0Ω,1/16W
R4353	NRSA6AJ-0R0W	MG RESISTOR,A,B	0Ω,1/16W
R4354	NRSA6AJ-0R0W	MG RESISTOR,A,B	0Ω,1/16W
R4355	NRVA6AD-473W	CMF RESISTOR,A,B	47kΩ,1/16W
R4356	NRVA6AD-272W	CMF RESISTOR,C,D	2.7kΩ,1/16W
	NRVA6AD-333W	CMF RESISTOR,A,B	33kΩ,1/16W
R4358	NRVA6AD-622W	CMF RESISTOR,A,B	6.2kΩ,1/16W
	NRVA6AD-272W	CMF RESISTOR,C,D	2.7kΩ,1/16W
R4360	NRVA6AD-163W	CMF RESISTOR,A,B	16kΩ,1/16W
	NRVA6AD-272W	CMF RESISTOR,C,D	2.7kΩ,1/16W
R4362	NRVA6AD-163W	CMF RESISTOR,A,B	16kΩ,1/16W
	NRVA6AD-272W	CMF RESISTOR,C,D	2.7kΩ,1/16W
R4363	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R4364	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4365	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4367	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4369	NRVA6AD-750W	CMF RESISTOR,A,B	75Ω,1/16W
	NRVA6AD-201W	CMF RESISTOR,C,D	200Ω,1/16W
R4370	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4371	NRVA6AD-131W	CMF RESISTOR,A,B	130Ω,1/16W
	NRVA6AD-201W	CMF RESISTOR,C,D	200Ω,1/16W
R4372	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R4373	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R4374	NRVA6AD-101W	CMF RESISTOR,A,B	100Ω,1/16W
	NRVA6AD-201W	CMF RESISTOR,C,D	200Ω,1/16W
R4375	NRVA6AD-271W	CMF RESISTOR	270Ω,1/16W
R4376	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R4377	NRVA6AD-270W	CMF RESISTOR,A,B	27Ω,1/16W
R4378	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R4379	NRVA6AD-333W	CMF RESISTOR	33kΩ,1/16W
R4383	NRVA6AD-271W	CMF RESISTOR,C,D	270Ω,1/16W
R4384	NRSA6AJ-0R0W	MG RESISTOR,A,B	0Ω,1/16W
R4385	NRSA6AJ-0R0W	MG RESISTOR,A,B	0Ω,1/16W
R4386	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4387	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4388	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4389	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4390	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4805	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4806	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R4807	NRSA6AJ-683W	MG RESISTOR	68kΩ,1/16W
R4808	NRSA6AJ-243W	MG RESISTOR	24kΩ,1/16W
R4809	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R4810	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4811	NRSA6AJ-684W	MG RESISTOR	680kΩ,1/16W
R4812	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R4814	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R4815	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R4816	NRSA6AJ-185W	MG RESISTOR	1.8MΩ,1/16W
R4819	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4820	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R4821	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R4822	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R4823	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4824	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R4825	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
R4826	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R4828	NRSA6AJ-122W	MG RESISTOR	1.2kΩ,1/16W
R4829	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4831	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R4832	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4833	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R4834	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4835	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4836	NRSA6AJ-151W	MG RESISTOR	150Ω,1/16W
R4837	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4838	NRSA6AJ-470W	MG RESISTOR	47Ω,1/16W
R4839	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4840	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4841	NRSA6AJ-564W	MG RESISTOR	560kΩ,1/16W
R4844	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4846	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4854	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4856	NRSA6AJ-6R8W	MG RESISTOR	6.8Ω,1/16W
R4857	NRSA6AJ-6R8W	MG RESISTOR	6.8Ω,1/16W
R4858	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R4859	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4860	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4862	NRSA6AJ-6R8W	MG RESISTOR	6.8Ω,1/16W
R4863	NRSA6AJ-6R8W	MG RESISTOR	6.8Ω,1/16W
R4864	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4865	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4866	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4867	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4868	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		R4870	NRSA6AJ-271W	MG RESISTOR	270Ω,1/16W
		R4871	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4874	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4901	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R4902	NRSA6AJ-683W	MG RESISTOR	68kΩ,1/16W
		R4903	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
		R4904	NRSA6AJ-243W	MG RESISTOR	24kΩ,1/16W
		R4905	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R4906	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
		R4907	NRSA6AJ-684W	MG RESISTOR	680kΩ,1/16W
		R4908	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
		R4909	NRSA6AJ-185W	MG RESISTOR	1.8MΩ,1/16W
		R4910	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
		R4911	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
		R4912	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R4913	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R4914	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R4915	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
		R4916	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
		R4917	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R4918	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
		R4919	NRSA6AJ-122W	MG RESISTOR	1.2kΩ,1/16W
		R4920	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R4921	NRSA6AJ-151W	MG RESISTOR	150Ω,1/16W
		R4922	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R4923	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R4924	NRSA6AJ-564W	MG RESISTOR	560kΩ,1/16W
		R4926	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
		R5001	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R5002	NRVA6AD-100W	CMF RESISTOR	10Ω,1/16W
		R5003	NRVA6AD-100W	CMF RESISTOR	10Ω,1/16W
		R5004	NRVA6AD-100W	CMF RESISTOR	10Ω,1/16W
		R5005	NRVA6AD-100W	CMF RESISTOR	10Ω,1/16W
		R5006	NRVA6AD-100W	CMF RESISTOR	10Ω,1/16W
		R5007	NRVA6AD-100W	CMF RESISTOR	10Ω,1/16W
		R5011	NRSA6AJ-330W	MG RESISTOR	33Ω,1/16W
		R5013	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R5016	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
		R5017	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
		R5018	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R5021	NRVA6AD-101W	CMF RESISTOR	100Ω,1/16W
		R5022	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R5023	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
		R5024	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
		R5025	NRSA6AJ-330W	MG RESISTOR	33Ω,1/16W
		R5026	NRSA6AJ-330W	MG RESISTOR	33Ω,1/16W
		R5027	NRSA6AJ-330W	MG RESISTOR	33Ω,1/16W
		R5028	NRSA6AJ-330W	MG RESISTOR	33Ω,1/16W
		R5029	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
		R6001	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R6002	NRVA6AD-183W	CMF RESISTOR	18kΩ,1/16W
		R6003	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R6004	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R6005	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
		R6006	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R6007	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R6009	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
		R6010	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R6011	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R6012	NRVA6AD-823W	CMF RESISTOR	82kΩ,1/16W
		R6013	NRVA6AD-473W	CMF RESISTOR	47kΩ,1/16W
	⚠	R6017	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
		R6018	NRSA63J-471X	MG RESISTOR	470Ω,1/16W
		RA1001	NRZ0034-102W	NETWORK RESISTOR	1kΩ
		RA1002	NRZ0034-102W	NETWORK RESISTOR	1kΩ
		RA1003	NRZ0034-102W	NETWORK RESISTOR	1kΩ
		RA1004	NRZ0034-102W	NETWORK RESISTOR	1kΩ
		RA1005	NRZ0034-102W	NETWORK RESISTOR	1kΩ
		RA1006	NRZ0034-104W	NETWORK RESISTOR	100kΩ
		RA1007	NRZ0034-104W	NETWORK RESISTOR	100kΩ
		RA1401	NRZ0034-473W	NETWORK RESISTOR	47kΩ
		RA1402	NRZ0034-102W	NETWORK RESISTOR	1kΩ
		RA1403	NRZ0034-102W	NETWORK RESISTOR	1kΩ
		RA4301	NRZ0034-221W	NETWORK RESISTOR	220Ω
		RA4302	NRZ0034-221W	NETWORK RESISTOR	220Ω
		RA4303	NRZ0034-221W	NETWORK RESISTOR	220Ω
		RA4304	NRZ0034-221W	NETWORK RESISTOR	220Ω
		RA4305	NRZ0034-221W	NETWORK RESISTOR	220Ω
		RA4306	NRZ0034-221W	NETWORK RESISTOR	220Ω
		RA4307	NRZ0034-221W	NETWORK RESISTOR	220Ω
		RA4308	NRZ0034-221W	NETWORK RESISTOR	220Ω
		C1001	NBE90JM-106X	T CAPACITOR	10µF,6.3V
		C1002	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C1003	NBE90JM-106X	T CAPACITOR	10µF,6.3V
		C1004	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C1005	NBE90JM-106X	T CAPACITOR	10µF,6.3V
		C1006	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C1007	NCBA1CK-103W	CAPACITOR	0.01µF,16V
		C1008	NCBA1CK-103W	CAPACITOR	0.01µF,16V
		C1009	NDCA1HJ-130W	CAPACITOR	13pF,50V
		C1010	NCBA1CK-103W	CAPACITOR	0.01µF,16V
		C1011	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C1012	NCBA1CK-103W	CAPACITOR	0.01µF,16V
		C1013	NCBA1CK-103W	CAPACITOR	0.01µF,16V
		C1014	NCBA1CK-103W	CAPACITOR	0.01µF,16V
		C1015	NCBA1CK-103W	CAPACITOR	0.01µF,16V
		C1016	NCBA1CK-103W	CAPACITOR	0.01µF,16V
		C1017	NCBA1CK-103W	CAPACITOR	0.01µF,16V
		C1018	NCBA1CK-103W	CAPACITOR	0.01µF,16V
		C1019	NCBA1CK-103W	CAPACITOR	0.01µF,16V
		C1020	NCBA1CK-103W	CAPACITOR	0.01µF,16V
		C1021	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C1023	NDCA1HJ-120W	CAPACITOR,A,B	12pF,50V
		C1024	NDCA1HJ-330W	CAPACITOR,A,B	33pF,50V
		C1025	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C1026	NCBA1CK-103W	CAPACITOR	0.01µF,16V
		C1027	NCBA1CK-103W	CAPACITOR	0.01µF,16V
		C1028	NCBA1CK-103W	CAPACITOR	0.01µF,16V
		C1029	NCBA1CK-103W	CAPACITOR	0.01µF,16V
		C1030	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C1031	NCBA1CK-103W	CAPACITOR	0.01µF,16V
		C1032	NCB30JK-105X	CAPACITOR	1µF,6.3V
		C1201	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C1202	NCBA1AK-104W	CAPACITOR	0.1µF,10V
		C1204	NCB21AK-105X	CAPACITOR	1µF,10V
		C1301	NCBA1CK-103W	CAPACITOR	0.01µF,16V
		C1302	NCBA1CK-103W	CAPACITOR	0.01µF,16V
		C1401	NBE90JM-106X	T CAPACITOR	10µF,6.3V
		C1402	NBE90JM-106X	T CAPACITOR	10µF,6.3V
		C1405	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
		C1406	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
		C1408	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
		C1409	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
		C1410	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
		C1411	NCFA1AZ-104W	CAPACITOR	0.1µF,10V
		C1412	NCFA1AZ-104W	CAPACITOR	0.1µF,10V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C1413	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C1414	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C1415	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C1416	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C1417	NCBA1CK-223W	CAPACITOR	0.022μF,16V
C1418	NCBA1CK-223W	CAPACITOR	0.022μF,16V
C1419	NCBA1CK-223W	CAPACITOR	0.022μF,16V
C1420	NCBA1CK-223W	CAPACITOR	0.022μF,16V
C2003	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2004	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2005	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C2006	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2007	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2008	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2009	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2010	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2011	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2012	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C2013	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C2014	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C2015	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C2016	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C2017	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2018	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2019	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2020	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2021	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2022	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2023	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2024	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2025	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2026	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2027	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2028	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2029	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2030	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2031	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2032	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2033	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2034	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2035	NCB11CK-105X	CAPACITOR	1μF,16V
C2036	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2037	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2038	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2039	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2040	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2041	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2042	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2043	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3002	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3005	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3006	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3008	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3009	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3010	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3012	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3014	NDCA1HJ-330W	CAPACITOR	33pF,50V
C3015	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C3016	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3017	NCB30JK-105X	CAPACITOR	1μF,6.3V
C3018	NCBA1EK-472W	CAPACITOR	0.0047μF,25V
C3019	NDCA1EJ-271W	CAPACITOR	270pF,25V
C3021	NCBA1AK-104W	CAPACITOR	0.1μF,10V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C3022	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3023	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3024	NDCA1HJ-100W	CAPACITOR	10pF,50V
C3025	NDCA1HJ-100W	CAPACITOR	10pF,50V
C3026	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3027	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3028	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3029	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3030	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3031	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3032	NDCA1HJ-151W	CAPACITOR	150pF,50V
C3034	NCBA1AK-473W	CAPACITOR	0.047μF,10V
C3035	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3037	NCB30JK-105X	CAPACITOR	1μF,6.3V
C3038	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3039	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C3040	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C3041	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3042	NCB30JK-105X	CAPACITOR	1μF,6.3V
C3044	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C3045	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3046	NCB30JK-105X	CAPACITOR	1μF,6.3V
C3048	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3052	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3053	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3318	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3319	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3320	NCB21AK-105X	CAPACITOR	1μF,10V
C3325	NDCA1HJ-9R0W	CAPACITOR	9pF,50V
C3326	NDCA1HJ-9R0W	CAPACITOR	9pF,50V
C3328	NDCA1HJ-470W	CAPACITOR	47pF,50V
C3329	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C3330	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3331	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C3332	NDCA1HJ-390W	CAPACITOR	39pF,50V
C3701	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3702	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3703	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3704	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C3707	NBE20GM-226X	T CAPACITOR	22μF,4.0V
C3708	NBE40GM-107X	T CAPACITOR	100μF,4.0V
C3709	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3710	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C3711	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C3712	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3713	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3714	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C3715	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3716	NCB30JK-105X	CAPACITOR	1μF,6.3V
C3721	NBE20JM-226X	T CAPACITOR	22μF,6.3V
C3722	NCF31AZ-105X	CAPACITOR	1μF,10V
C3723	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C3724	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3901	NCBA1AK-104W	CAPACITOR,C,D	0.1μF,10V
C3902	NCBA1AK-104W	CAPACITOR,C,D	0.1μF,10V
C3903	NCBA1AK-104W	CAPACITOR,C,D	0.1μF,10V
C3904	NCBA1AK-104W	CAPACITOR,C,D	0.1μF,10V
C3905	NCBA1AK-104W	CAPACITOR,C,D	0.1μF,10V
C3906	NCBA1AK-104W	CAPACITOR,C,D	0.1μF,10V
C3907	NCBA1AK-104W	CAPACITOR,C,D	0.1μF,10V
C3908	NCBA1AK-104W	CAPACITOR,C,D	0.1μF,10V
C3909	NCBA1AK-104W	CAPACITOR,C,D	0.1μF,10V
C3910	NCBA1AK-104W	CAPACITOR,C,D	0.1μF,10V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C3911	NCBA1AK-104W	CAPACITOR,C,D	0.1μF,10V
C3912	NCBA1AK-104W	CAPACITOR,C,D	0.1μF,10V
C3913	NCBA1AK-104W	CAPACITOR,C,D	0.1μF,10V
C3914	NCBA1AK-104W	CAPACITOR,C,D	0.1μF,10V
C3916	NBE20JM-106X	T CAPACITOR,C,D	10μF,6.3V
C3917	NCBA1AK-104W	CAPACITOR,C,D	0.1μF,10V
C3919	NCB21CK-105X	CAPACITOR,C,D	1μF,16V
C3920	NCB21CK-105X	CAPACITOR,C,D	1μF,16V
C3951	NBE90JM-106X	T CAPACITOR,C,D	10μF,6.3V
C3952	NCB30JK-105X	CAPACITOR,C,D	1μF,6.3V
C3954	NCBA1AK-104W	CAPACITOR,C,D	0.1μF,10V
C3955	NDCA1HJ-3R0W	CAPACITOR,C,D	3pF,50V
C3956	NDCA1HJ-5R0W	CAPACITOR,C,D	5pF,50V
C3957	NDCA1HJ-330W	CAPACITOR,C,D	33pF,50V
C3958	NCB20JM-475X	CAPACITOR,C,D	4.7μF,6.3V
C3959	NCBA1CK-103W	CAPACITOR,C,D	0.01μF,16V
C3961	NCBA1HK-102W	CAPACITOR,C,D	0.001μF,50V
C3962	NDCA1HJ-3R0W	CAPACITOR,C,D	3pF,50V
C3963	NDCA1HJ-5R0W	CAPACITOR,C,D	5pF,50V
C3964	NDCA1HJ-330W	CAPACITOR,C,D	33pF,50V
C3965	NCBA1HK-102W	CAPACITOR,C,D	0.001μF,50V
C3967	NCBA1CK-103W	CAPACITOR,C,D	0.01μF,16V
C3968	NCBA1CK-103W	CAPACITOR,C,D	0.01μF,16V
C4101	NCF31EZ-104X	CAPACITOR	0.1μF,25V
C4102	NBP41EM-475X	T CAPACITOR	4.7μF,25V
C4103	NCF31EZ-104X	CAPACITOR	0.1μF,25V
C4104	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4105	NBE41AM-476X	T CAPACITOR	47μF,10V
C4106	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4107	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4108	NBP21VM-105X	T CAPACITOR	1μF,35V
C4109	NCF31EZ-104X	CAPACITOR	0.1μF,25V
C4201	NBE40JM-476X	T CAPACITOR	47μF,6.3V
C4202	NBE20GM-476X	T CAPACITOR	47μF,4.0V
C4203	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C4204	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4205	NBE20GM-476X	T CAPACITOR	47μF,4.0V
C4207	NBE90JM-106X	T CAPACITOR	10μF,6.3V
C4208	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4209	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4210	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4211	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4212	NCBA1CK-123W	CAPACITOR	0.012μF,16V
C4213	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4214	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4215	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4216	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4217	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4218	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4219	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4220	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4221	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C4222	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C4223	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C4224	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C4225	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C4226	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C4301	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4302	NBE90JM-106X	T CAPACITOR	10μF,6.3V
C4303	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4304	NBE90JM-106X	T CAPACITOR	10μF,6.3V
C4306	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4307	NBE90JM-106X	T CAPACITOR	10μF,6.3V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C4308	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4309	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4310	NBG40GM-226X	T CAPACITOR	22μF,4.0V
C4312	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4313	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4315	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4316	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4317	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4318	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4319	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4320	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4321	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4322	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4323	NBE90JM-106X	T CAPACITOR	10μF,6.3V
C4351	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4352	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4353	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4354	NCBA1AK-104W	CAPACITOR,A,B	0.1μF,10V
C4355	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4357	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4359	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4361	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4362	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4363	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4364	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4365	NBE90JM-106X	T CAPACITOR	10μF,6.3V
C4401	NBE90GM-226X	T CAPACITOR	22μF,4.0V
C4402	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C4801	NBE21AM-106X	T CAPACITOR	10μF,10V
C4802	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4803	NBE90JM-106X	T CAPACITOR	10μF,6.3V
C4804	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4805	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4806	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4808	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4809	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4810	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
C4811	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
C4812	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4813	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4814	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4818	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4819	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4820	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4821	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4851	NBE90JM-106X	T CAPACITOR	10μF,6.3V
C4852	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4853	NBE91AM-335X	T CAPACITOR	3.3μF,10V
C4854	NBE21AM-106X	T CAPACITOR	10μF,10V
C4855	NCB31CK-104X	CAPACITOR	0.1μF,16V
C4858	NDCA1HJ-330W	CAPACITOR	33pF,50V
C4859	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C4860	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C4861	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C4862	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C4863	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4864	NBE90JM-106X	T CAPACITOR	10μF,6.3V
C4865	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4901	NBE90JM-106X	T CAPACITOR	10μF,6.3V
C4902	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4903	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4906	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4907	NCFA1AZ-104W	CAPACITOR	0.1μF,10V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C4908	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
C4909	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4910	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
C4911	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
C4912	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C4913	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4914	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4915	NCBA1HK-331W	CAPACITOR	330pF,50V
C4917	NCBA1HK-331W	CAPACITOR	330pF,50V
C4919	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4920	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4921	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4922	NBE21AM-106X	T CAPACITOR	10μF,10V
C4923	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C5001	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5002	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5003	NBE40JM-476X	T CAPACITOR	47μF,6.3V
C5004	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5005	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5006	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5007	NCB30JK-105X	CAPACITOR	1μF,6.3V
C5008	NBE90JM-106X	T CAPACITOR	10μF,6.3V
C5009	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5011	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5012	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5013	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5014	NBM90JM-226X	T CAPACITOR	22μF,6.3V
C5017	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5018	NCB30JK-105X	CAPACITOR	1μF,6.3V
C5019	NCB30JK-105X	CAPACITOR	1μF,6.3V
C5221	NCF31EZ-104X	CAPACITOR	0.1μF,25V
C5222	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5223	NBP41EM-475X	T CAPACITOR	4.7μF,25V
C5224	NBE41AM-476X	T CAPACITOR	47μF,10V
C5225	NBE41AM-476X	T CAPACITOR	47μF,10V
C5227	NCF31EZ-104X	CAPACITOR	0.1μF,25V
C5228	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C5230	NBE41AM-476X	T CAPACITOR	47μF,10V
C5231	NBE41AM-476X	T CAPACITOR	47μF,10V
C5232	NBE41AM-476X	T CAPACITOR	47μF,10V
C6001	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C6002	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C6003	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C6004	NBE90JM-106X	T CAPACITOR	10μF,6.3V
C6005	NBP21CM-685X	T CAPACITOR	6.8μF,16V
C6006	NCF31AZ-105X	CAPACITOR	1μF,10V
C6007	NBE90JM-106X	T CAPACITOR	10μF,6.3V
C6008	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C6009	NCBA1CK-103W	CAPACITOR	0.01μF,16V
L1001	NQR0265-001X	FERRITE BEAD	
L1002	NQR0265-001X	FERRITE BEAD	
L1003	NQR0265-001X	FERRITE BEAD	
L1004	NQL085J-390X	COIL,A,B	39μH
L1201	NQL315K-100X	COIL	10μH
L1401	NQR0006-001X	FERRITE BEAD	
L1402	NRSA02J-0R0X	MG RESISTOR	0Ω,1/10W
L2001	NQR0006-001X	FERRITE BEAD	
L3001	NQR0006-001X	FERRITE BEAD	
L3002	NQR0006-001X	FERRITE BEAD	
L3003	NQR0006-001X	FERRITE BEAD	
L3004	NQR0006-001X	FERRITE BEAD	
L3005	NQR0006-001X	FERRITE BEAD	
L3006	NQR0006-001X	FERRITE BEAD	

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
L3009	NQL085J-2R2X	COIL	2.2μH
L3305	NQR0006-001X	FERRITE BEAD	
L3312	NQL085J-120X	COIL	12μH
L3313	NQL085J-100X	COIL	10μH
L3701	NQL302N-100X	COIL	10μH
L3901	NQR0006-001X	FERRITE BEAD,C,D	
L3902	NQR0305-001X	FERRITE BEAD,C,D	
L3903	NQR0305-001X	FERRITE BEAD,C,D	
L3951	NQL302N-100X	COIL,C,D	10μH
L3952	NQL085J-6R8X	COIL,C,D	6.8μH
L3953	NQL085J-6R8X	COIL,C,D	6.8μH
L4101	NQR0129-002X	FERRITE BEAD	
L4102	NQL045K-100X	COIL	10μH
L4103	NQR0129-002X	FERRITE BEAD	
L4104	NQL045K-100X	COIL	10μH
L4201	NQR0265-001X	FERRITE BEAD	
L4202	NQL402M-100X	COIL	10μH
L4203	NQR0265-001X	FERRITE BEAD	
L4301	NQR0265-001X	FERRITE BEAD	
L4302	NQR0265-001X	FERRITE BEAD	
L4303	NQR0265-001X	FERRITE BEAD	
L4305	NQR0265-001X	FERRITE BEAD	
L4306	NQR0129-002X	FERRITE BEAD	
L4307	NQR0265-001X	FERRITE BEAD	
L4351	NQL402M-100X	COIL	10μH
L4401	NQR0006-001X	FERRITE BEAD	
L4801	NQL302N-100X	COIL	10μH
L4802	NQL302N-100X	COIL	10μH
L4851	NQR0129-002X	FERRITE BEAD	
L4852	NQL315K-100X	COIL	10μH
L4853	NQL315K-100X	COIL	10μH
L4901	NQL315K-100X	COIL	10μH
L4902	NQL315K-100X	COIL	10μH
L5001	NQR0129-002X	FERRITE BEAD	
L5002	NQL045K-100X	COIL	10μH
L5003	NQR0129-002X	FERRITE BEAD	
L5004	NQR0129-002X	FERRITE BEAD	
L5005	NQR0129-002X	FERRITE BEAD	
L5201	NQR0129-002X	FERRITE BEAD	
L5202	NQR0129-002X	FERRITE BEAD	
L5203	NQL045K-100X	COIL	10μH
L5204	NQL045K-100X	COIL	10μH
L5207	NQL402M-100X	COIL	10μH
L5208	NQL402M-100X	COIL	10μH
L6001	NQL402M-100X	COIL	10μH
X1001	NAX0450-001X	C OSCILLATOR	
X1002	NAX0267-001X	CRYSTAL RESONATOR	
X3002	NAX0206-001X	CRYSTAL RESONATOR	
X3301	NAX0169-001X	CRYSTAL RESONATOR	
X4301	NAX0332-001X	CXO	
WR1	WJT0040-001A	E-CARD WIRE,CN113-EJECT CN2422	
WR2	WJV0042-001A	E-PRIMARY WIRE,TL2001-TL4202	
J602	NNZ0041-001X	D CONNECTOR	
CN101	QGA1002F1-02X	CONNECTOR	
CN102	QGF0513F1-20X	FPC CONNECTOR	
CN103	QGA1001F1-02X	CONNECTOR	
CN104	QGF0301F1-39X	FPC CONNECTOR	
CN105	QGB0403M1-C0X	CONNECTOR	
CN106	QGB0404M1-80X	CONNECTOR	
CN107	QGB0509M1-30X	CONNECTOR	
CN108	QGB0512L2-50X	CONNECTOR	
CN109	QGB0507L1-80X	CONNECTOR	
CN110	QGF0517F2-22X	FPC CONNECTOR	

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
CN111	QGF0517F2-24X	FPC CONNECTOR	
CN112	QGB0402J1-80X	CONNECTOR	
CN113	QGF0501F1-13X	FPC CONNECTOR	
OT1	LY30029-0H1A	SPACER(A)	
OT2	LY30016-0P9A	SPACER-A	

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DSC BOARD ASSEMBLY <02>

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
PW	YB10302B-01	DSC BOARD ASSY, A,B,C	
	YB10302B-02	DSC BOARD ASSY, D	
IC8001	JCY0121-4	IC	
IC8003	M32310D5WG	IC	
IC8004	MBV800TA10PTA17	IC(MICRO C ROM)	
	or MBV800TA12PTA17	IC(MICRO C ROM)	
	or MBV800TA90PTA17	IC(MICRO C ROM)	
	or 39VF800A7CEKA02	IC(MICRO C ROM)	
	or 39VF800A9CEKA02	IC(MICRO C ROM)	
IC8006	MM1385NN	IC	
IC8007	MM1385EN	IC	
IC8008	TC7WHU04FU	IC	
IC8009	TC7WH34FK	IC	
IC8201	JCY0145-2	IC	
IC8202	MM1385GN	IC	
IC8203	K4S643232C-TC70	IC	
	or K4S643232C-TC80	IC	
IC8204	K4S641632D-TC1H	IC	
	or K4S641632D-TC1L	IC	
IC8401	ML60851CLB	IC	
IC8402	S-80842ANNP-W	IC	
Q8401	DTA114EE	TRANSISTOR	
	or RN2101	TRANSISTOR	
	or UN9111J	TRANSISTOR	
D8001	RB751V-40-X	SB DIODE	
D8401	1SS355	DIODE	
R8002	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8004	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8006	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8007	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8008	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8011	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8012	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8013	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R8014	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8015	NRSA6AJ-133W	MG RESISTOR	13kΩ,1/16W
R8017	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8020	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8021	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8022	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8023	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8024	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8025	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8026	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8027	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8028	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8029	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8030	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8031	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8032	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8033	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8034	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8035	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8036	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8037	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8038	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R8039	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8040	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R8041	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8042	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8043	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8044	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8045	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8046	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8047	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R8049	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8050	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8051	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R8052	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R8053	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8054	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8055	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8056	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8057	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8058	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R8059	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R8060	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R8061	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R8062	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R8063	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R8064	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R8065	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R8066	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R8067	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R8068	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R8069	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R8070	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R8071	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R8072	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R8073	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R8074	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8075	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8076	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8077	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8078	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8079	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8080	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8081	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8082	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8083	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8084	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8086	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8087	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8221	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8222	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8223	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8224	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8225	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8226	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8227	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8228	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8229	NRSA6AJ-273W	MG RESISTOR	27kΩ,1/16W
R8230	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R8231	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8235	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8238	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8239	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8248	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8249	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8401	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R8402	NRS181J-220X	MG RESISTOR	22Ω,1/8W
R8403	NRS181J-220X	MG RESISTOR	22Ω,1/8W
R8404	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R8405	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R8406	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R8407	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
RA8001	NRZ0034-100W	NETWORK RESISTOR	10Ω
RA8002	NRZ0034-100W	NETWORK RESISTOR	10Ω
RA8003	NRZ0034-100W	NETWORK RESISTOR	10Ω
RA8004	NRZ0034-100W	NETWORK RESISTOR	10Ω
RA8201	NRZ0034-0R0W	NETWORK RESISTOR	0Ω
RA8202	NRZ0034-0R0W	NETWORK RESISTOR	0Ω
RA8203	NRZ0034-0R0W	NETWORK RESISTOR	0Ω
RA8204	NRZ0034-0R0W	NETWORK RESISTOR	0Ω
RA8222	NRZ0034-0R0W	NETWORK RESISTOR	0Ω
RA8223	NRZ0034-0R0W	NETWORK RESISTOR	0Ω
RA8224	NRZ0034-0R0W	NETWORK RESISTOR	0Ω
RA8225	NRZ0034-0R0W	NETWORK RESISTOR	0Ω
RA8401	NRZ0034-221W	NETWORK RESISTOR	220Ω
RA8402	NRZ0034-221W	NETWORK RESISTOR	220Ω
RA8403	NRZ0034-0R0W	NETWORK RESISTOR	0Ω
RA8404	NRZ0034-0R0W	NETWORK RESISTOR	0Ω
C8006	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8007	NBE90JM-106X	T CAPACITOR	10μF,6.3V
C8008	NCB30JK-105X	CAPACITOR	1μF,6.3V
C8009	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8010	NBE90JM-106X	T CAPACITOR	10μF,6.3V
C8011	NCB30JK-105X	CAPACITOR	1μF,6.3V
C8017	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8020	NBE90JM-106X	T CAPACITOR	10μF,6.3V
C8021	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8022	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8023	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8024	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8025	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8026	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8027	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8028	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8029	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8030	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8031	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8032	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8033	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8034	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8035	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8036	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8037	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8038	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8039	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8040	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8041	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8042	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8043	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8044	NBE80GM-226X	T CAPACITOR	22μF,4.0V
C8045	NBE80GM-226X	T CAPACITOR	22μF,4.0V
C8046	NBE90JM-106X	T CAPACITOR	10μF,6.3V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C8048	NBE80GM-226X	T CAPACITOR	22μF,4.0V
C8049	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8050	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8051	NBE80GM-226X	T CAPACITOR	22μF,4.0V
C8052	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8054	NCB31HK-392X	CAPACITOR	0.0039μF,50V
C8056	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8057	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8058	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8059	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8060	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C8062	NCB30JK-105X	CAPACITOR	1μF,6.3V
C8063	NBE80GM-226X	T CAPACITOR	22μF,4.0V
C8064	NBE80GM-226X	T CAPACITOR	22μF,4.0V
C8065	NBE80GM-226X	T CAPACITOR	22μF,4.0V
C8201	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8202	NBE90JM-106X	T CAPACITOR	10μF,6.3V
C8203	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8204	NBE90JM-106X	T CAPACITOR	10μF,6.3V
C8205	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8206	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8207	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8208	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8209	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8210	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8211	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8212	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8213	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8214	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8215	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8216	NCBA1AK-473W	CAPACITOR	0.047μF,10V
C8217	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8218	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8219	NCB30JK-105X	CAPACITOR	1μF,6.3V
C8220	NBE90JM-106X	T CAPACITOR	10μF,6.3V
C8221	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8222	NBE90JM-106X	T CAPACITOR	10μF,6.3V
C8223	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8224	NBE90JM-106X	T CAPACITOR	10μF,6.3V
C8225	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8226	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8227	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8228	NBE90JM-106X	T CAPACITOR	10μF,6.3V
C8229	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8230	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8231	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8401	NBE90JM-106X	T CAPACITOR	10μF,6.3V
C8402	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8403	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C8404	NCBA1AK-104W	CAPACITOR	0.1μF,10V
L8001	NQR0129-002X	FERRITE BEAD	
L8002	NQR0129-002X	FERRITE BEAD	
L8003	NQR0129-002X	FERRITE BEAD	
L8005	NQR0129-002X	FERRITE BEAD	
L8006	NQR0129-002X	FERRITE BEAD	
L8007	NQR0129-002X	FERRITE BEAD	
L8008	NQR0129-002X	FERRITE BEAD	
L8010	NQR0129-002X	FERRITE BEAD	
L8201	NQR0265-001X	FERRITE BEAD	
L8202	NQR0265-001X	FERRITE BEAD	
L8203	NQR0265-001X	FERRITE BEAD	
L8204	NQR0265-001X	FERRITE BEAD	
L8205	NQR0265-001X	FERRITE BEAD	

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
L8206	NQR0265-001X	FERRITE BEAD	
L8402	NQR0265-001X	FERRITE BEAD	
X8002	NAX0354-001X	RESONATOR	
X8401	NAX0398-001X	C OSCILLATOR	
HS1	LY40035-001A	HEAT SINK(DSC)	
WR1	QUB450-03A2VL	SIN TWIST WIRE,LUG WIRE	
CN8401	QGB0403L1-C0X	CONNECTOR	
CN8402	QGF0517F1-20X	FPC CONNECTOR	
OT1	LY30029-0D5A	SPACER(A)	

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PRE/MDA BOARD ASSEMBLY <03>

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
PW	YB10303A-02	PRE/MDA BOARD ASSY, A	
	YB10303A-03	PRE/MDA BOARD ASSY, B,C,D	
IC1601	BD6630KV	IC	
IC1701	TA75W01FU	IC	
IC1702	TA75W393FU	IC	
IC3501	JCY0132	IC	
IC3502	SN74AHC1G04K	IC	
Q1601	UMC3N	TRANSISTOR	
D1602	DAP222	DIODE	
D1603	DAP222	DIODE	
D1604	DAP222	DIODE	
R1601	NRSA6AJ-681W	MG RESISTOR	680Ω,1/16W
R1602	NRSA6AJ-124W	MG RESISTOR	120kΩ,1/16W
R1603	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1604	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1605	NRV142F-R22X	CMF RESISTOR	0.22Ω,1/4W
R1606	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1609	NRV142F-R33X	CMF RESISTOR	0.33Ω,1/4W
R1610	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R1611	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R1612	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1613	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1614	NRSA6AJ-682W	MG RESISTOR	6.8kΩ,1/16W
R1615	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1616	NRSA6AJ-681W	MG RESISTOR	680Ω,1/16W
R1617	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R1618	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W
R1619	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R1620	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1621	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1622	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1624	NRVA6AD-123W	CMF RESISTOR	12kΩ,1/16W
R1625	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1626	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1627	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1628	NRVA6AD-361W	CMF RESISTOR	360Ω,1/16W
R1629	NRSA6AJ-564W	MG RESISTOR	560kΩ,1/16W
R1630	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1631	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1632	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1633	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1634	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1635	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1636	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
R1637	NRSA6AJ-124W	MG RESISTOR	120kΩ,1/16W
R1642	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1644	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1701	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R1702	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R1703	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R1704	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R1705	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R1706	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R1707	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1708	NRSA6AJ-124W	MG RESISTOR	120kΩ,1/16W
R1709	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1710	NRSA6AJ-124W	MG RESISTOR	120kΩ,1/16W
R1711	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1712	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1714	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1715	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3501	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R3502	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R3503	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R3504	NRVA6AD-241W	CMF RESISTOR	240Ω,1/16W
R3505	NRVA6AD-241W	CMF RESISTOR	240Ω,1/16W
R3506	NRVA6AD-241W	CMF RESISTOR	240Ω,1/16W
R3507	NRVA6AD-241W	CMF RESISTOR	240Ω,1/16W
R3508	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R3510	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3513	NRSA6AJ-393W	MG RESISTOR	39kΩ,1/16W
R3514	NRSA6AJ-682W	MG RESISTOR	6.8kΩ,1/16W
R3515	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3517	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3518	NRSA6AJ-100W	MG RESISTOR, A,B	10Ω,1/16W
	NRSA6AJ-560W	MG RESISTOR, C,D	56Ω,1/16W
C1601	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1602	NBE90JM-106X	T CAPACITOR	10µF,6.3V
C1603	NBE21AM-106X	T CAPACITOR	10µF,10V
C1605	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1606	NCBA1HK-152W	CAPACITOR	0.0015µF,50V
C1607	NCBA1AK-473W	CAPACITOR	0.047µF,10V
C1614	NBE21AM-106X	T CAPACITOR	10µF,10V
C1618	NCBA1HK-222W	CAPACITOR	0.0022µF,50V
C1619	NCBA1HK-222W	CAPACITOR	0.0022µF,50V
C1620	NCBA1HK-222W	CAPACITOR	0.0022µF,50V
C1621	NCB21AK-105X	CAPACITOR	1µF,10V
C1622	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C1623	NCBA1AK-473W	CAPACITOR	0.047µF,10V
C1624	NCB31EK-103X	CAPACITOR	0.01µF,25V
C1625	NCBA1AK-473W	CAPACITOR	0.047µF,10V
C1626	NCBA1HK-331W	CAPACITOR	330pF,50V
C1627	NCBA1CK-822W	CAPACITOR	0.0082µF,16V
C1628	NCB21CK-224X	CAPACITOR	0.22µF,16V
C1632	NBE21AM-106X	T CAPACITOR	10µF,10V
C1633	NCF21CZ-684X	CAPACITOR	0.68µF,16V
C1635	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1641	NCB31AK-474X	CAPACITOR	0.47µF,10V
C1701	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1702	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3501	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C3502	NCBA1AK-473W	CAPACITOR	0.047µF,10V
C3503	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3504	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C3505	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3506	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3507	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C3508	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C3509	NCBA1AK-104W	CAPACITOR	0.1µF,10V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C3510	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C3511	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3512	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3513	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C3514	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3516	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3517	NDCA1EJ-221W	CAPACITOR	220pF,25V
C3519	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3520	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C3522	NCBA1AK-473W	CAPACITOR	0.047μF,10V
C3523	NCBA1AK-473W	CAPACITOR	0.047μF,10V
C3524	NCBA1AK-473W	CAPACITOR	0.047μF,10V
C3525	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3526	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3527	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C3528	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3529	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3530	NBE90JM-475X	T CAPACITOR	4.7μF,6.3V
C3531	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3532	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3533	NBE90JM-475X	T CAPACITOR	4.7μF,6.3V
L1601	NQL315M-1R0X	COIL	1μH
L3501	NQL302N-100X	COIL	10μH
L3502	NQL302N-100X	COIL	10μH
L3503	NQL302N-100X	COIL	10μH
L3504	NQR0305-001X	FERRITE BEAD	
L3505	NQL302N-100X	COIL	10μH
CN401	QGB0404L1-80X	CONNECTOR	
CN402	QGF0517F1-08X	FPC CONNECTOR	
CN403	QGF0517F2-06X	FPC CONNECTOR	
CN404	QGF0517F1-11X	FPC CONNECTOR	
CN405	QGF0517F1-18X	FPC CONNECTOR	
CN406	QGF0517F2-16X	FPC CONNECTOR	
CN407	QGF0517F1-06X	FPC CONNECTOR	
SD1	LY32011-001A	SHIELD CASE(PR)	
OT1	LY30029-0J4A	SPACER(A),B,C,D	
OT2	LY30029-0J5A	SPACER(A),B,C,D	
OT3	LY43138-001A	SHEET(MDA),B,C,D	

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AUDIO BOARD ASSEMBLY <04>

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
PW1	YB10304A1-02	AUDIO BOARD ASSY	
IC1101	TA75W01FU	IC	
IC2201	AK4560AVQ	IC	
Q1151	RPM-22PB	PHOTO TRANSISTOR	
Q2201	2SC4617/QR/-X	TRANSISTOR	
Q2202	2SC4617/QR/-X	TRANSISTOR	
Q2203	2SD1626	TRANSISTOR	
Q2601	2SC4617/QR/-X	TRANSISTOR, A,B	
	2SC5585	TRANSISTOR, C,D	
Q2602	2SC4617/QR/-X	TRANSISTOR, A,B	
	2SC5585	TRANSISTOR, C,D	
Q2603	2SA1774/QR/-X	TRANSISTOR	
Q2604	2SA1774/QR/-X	TRANSISTOR	
Q2605	DTA124EE	TRANSISTOR	
	or RN2103	TRANSISTOR	
	or UN9112J	TRANSISTOR	
Q2701	2SC4617/QR/-X	TRANSISTOR	
Q2702	2SC4617/QR/-X	TRANSISTOR	
Q2703	2SC5585	TRANSISTOR	
Q2704	2SC5585	TRANSISTOR	
Q2901	2SB1121/TU/-X	TRANSISTOR	
	or 2SB1121/ST/-X	TRANSISTOR	
Q2902	2SC4617/QR/-X	TRANSISTOR	
Q2903	DTC144EE	TRANSISTOR	
	or PDTC144EE	TRANSISTOR	
	or UN9213J	TRANSISTOR	
	or RN1104	TRANSISTOR	
Q2904	DTC144EE	TRANSISTOR	
	or PDTC144EE	TRANSISTOR	
	or UN9213J	TRANSISTOR	
	or RN1104	TRANSISTOR	
Q2905	UMH6N	TRANSISTOR	
D2706	DAP222	DIODE	
D2901	EMZ6.8N	ZENER DIODE	
D2902	EMZ6.8N	ZENER DIODE	
D2903	EMZ6.8N	ZENER DIODE	
R1101	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R1102	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1104	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R1106	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R1107	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1108	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1109	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1110	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R1111	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R1112	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R1113	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R1151	NRSA63J-302X	MG RESISTOR	3kΩ,1/16W
R2201	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R2202	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
R2203	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R2204	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2205	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R2206	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R2207	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2208	NRSA6AJ-820W	MG RESISTOR	82Ω,1/16W
R2209	NRSA6AJ-820W	MG RESISTOR	82Ω,1/16W
R2210	NRSA6AJ-820W	MG RESISTOR	82Ω,1/16W
R2211	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R2212	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2213	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2214	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2215	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2216	NRSA6AJ-2R7W	MG RESISTOR	2.7Ω,1/16W
R2217	NRSA6AJ-2R7W	MG RESISTOR	2.7Ω,1/16W
R2218	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2219	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
R2220	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R2601	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2602	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2603	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R2604	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R2605	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2606	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2607	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R2608	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R2609	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2610	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2611	NRSA6AJ-182W	MG RESISTOR	1.8kΩ,1/16W
R2612	NRSA6AJ-182W	MG RESISTOR	1.8kΩ,1/16W
R2613	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
R2614	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R2615	NRSA6AJ-682W	MG RESISTOR	6.8kΩ,1/16W
R2616	NRSA6AJ-682W	MG RESISTOR	6.8kΩ,1/16W
R2617	NRSA6AJ-682W	MG RESISTOR	6.8kΩ,1/16W
R2618	NRSA6AJ-682W	MG RESISTOR	6.8kΩ,1/16W
R2619	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R2620	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R2623	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R2624	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R2625	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2626	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2627	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R2628	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R2629	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W
R2630	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W
R2631	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2632	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2633	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R2634	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R2635	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R2636	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R2637	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R2638	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R2639	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R2640	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R2641	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R2643	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2645	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2646	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2649	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2650	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2651	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2652	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2701	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R2702	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R2705	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R2706	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R2707	NRSA6AJ-273W	MG RESISTOR	27kΩ,1/16W
R2708	NRSA6AJ-273W	MG RESISTOR	27kΩ,1/16W
R2709	NRSA6AJ-151W	MG RESISTOR	150Ω,1/16W
R2710	NRSA6AJ-151W	MG RESISTOR	150Ω,1/16W
R2713	NRSA6AJ-682W	MG RESISTOR	6.8kΩ,1/16W
R2714	NRSA6AJ-682W	MG RESISTOR	6.8kΩ,1/16W
R2901	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2903	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2905	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R2906	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2907	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R2908	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R2909	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2910	NRSA6AJ-391W	MG RESISTOR	390Ω,1/16W
R2911	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R2912	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R2913	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
R2917	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R2918	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R2919	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R2920	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
C1101	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C1102	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C1103	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C1111	NCB30JK-105X	CAPACITOR	1µF,6.3V
C1112	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C1113	NBE20JM-106X	T CAPACITOR	10µF,6.3V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C1114	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C1151	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C2201	NCB21AK-105X	CAPACITOR	1µF,10V
C2202	NCB21AK-105X	CAPACITOR	1µF,10V
C2203	NBE80JM-106X	T CAPACITOR	10µF,6.3V
C2204	NCB30JK-105X	CAPACITOR	1µF,6.3V
C2205	NCB30JK-105X	CAPACITOR	1µF,6.3V
C2206	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C2207	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C2208	NCBA1AK-333W	CAPACITOR	0.033µF,10V
C2209	NCBA1CK-153W	CAPACITOR	0.015µF,16V
C2210	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C2211	NCB21AK-105X	CAPACITOR	1µF,10V
C2212	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C2213	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C2220	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C2221	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C2230	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C2231	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C2232	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C2233	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C2234	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C2235	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C2601	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C2602	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C2607	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C2608	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C2611	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C2612	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C2615	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C2616	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C2617	NCBA1AK-473W	CAPACITOR	0.047µF,10V
C2618	NCBA1AK-473W	CAPACITOR	0.047µF,10V
C2619	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C2620	NCBA1HK-102W	CAPACITOR	0.001µF,50V
C2621	NCBA1AK-473W	CAPACITOR	0.047µF,10V
C2622	NCBA1AK-473W	CAPACITOR	0.047µF,10V
C2625	NBP21DM-475X	T CAPACITOR	4.7µF,20V
C2626	NBP21DM-475X	T CAPACITOR	4.7µF,20V
C2627	NCBA1AK-473W	CAPACITOR	0.047µF,10V
C2628	NCBA1AK-473W	CAPACITOR	0.047µF,10V
C2629	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C2630	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C2631	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C2632	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C2633	NCBA1HK-182W	CAPACITOR	0.0018µF,50V
C2634	NCBA1HK-182W	CAPACITOR	0.0018µF,50V
C2635	NCB30JK-105X	CAPACITOR	1µF,6.3V
C2636	NCB30JK-105X	CAPACITOR	1µF,6.3V
C2637	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C2638	NCBA1CK-223W	CAPACITOR	0.022µF,16V
C2639	NCBA1EK-472W	CAPACITOR	0.0047µF,25V
C2640	NCBA1EK-472W	CAPACITOR	0.0047µF,25V
C2641	NCBA1EK-472W	CAPACITOR	0.0047µF,25V
C2642	NCBA1EK-472W	CAPACITOR	0.0047µF,25V
C2643	NCB30JK-105X	CAPACITOR	1µF,6.3V
C2644	NCB30JK-105X	CAPACITOR	1µF,6.3V
C2646	NCB21AK-105X	CAPACITOR	1µF,10V
C2647	NBE20JM-106X	T CAPACITOR	10µF,6.3V
C2701	NCB21AK-105X	CAPACITOR	1µF,10V
C2702	NCB21AK-105X	CAPACITOR	1µF,10V
C2703	NRSA02J-0R0X	MG RESISTOR	0Ω,1/10W
C2704	NRSA02J-0R0X	MG RESISTOR	0Ω,1/10W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C2707	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C2708	NCBA1AK-104W	CAPACITOR	0.1µF,10V
C2709	NBE20GM-226X	T CAPACITOR	22µF,4.0V
C2710	NBE20GM-226X	T CAPACITOR	22µF,4.0V
C2901	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C2904	NCBA1CK-103W	CAPACITOR	0.01µF,16V
C2907	NCB30JK-105X	CAPACITOR	1µF,6.3V
L1101	NQL402M-100X	COIL	10µH
L1151	NQR0265-001X	FERRITE BEAD	
L2201	NQL315K-100X	COIL	10µH
L2202	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2203	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2204	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2205	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2206	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2601	NQR0251-004X	FERRITE BEAD	
L2602	NQR0251-004X	FERRITE BEAD	
L2603	NQR0251-004X	FERRITE BEAD	
L2604	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2605	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2606	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2607	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2901	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2902	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2903	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2904	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2905	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2906	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2907	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2908	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2909	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2910	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2911	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
J201	QNS0168-001	3.5 JACK,EXT MIC	
CN201	QGB0402K1-80X	CONNECTOR	
CN202	QGF0517F1-16X	FPC CONNECTOR	
CN203	QGF0505F2-08X	FPC CONNECTOR	
CN204	QGA1002F1-03X	CONNECTOR	
CN205	QGF0517F1-10X	FPC CONNECTOR	

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REG BOARD ASSEMBLY <05>

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
PW2	YB10304A2-02	REG BOARD ASSY	
IC6101	FA3676F	IC	
Q6101	NDS352AP	MOS FET	
Q6103	NDS352AP	MOS FET	
Q6105	NDS352AP	MOS FET	
Q6106	NDS352AP	MOS FET	
Q6107	NDS352AP	MOS FET	
Q6108	NDS352AP	MOS FET	
Q6109	HN1C01FU/G/-X	PAIR TRANSISTOR	
	or PUMX1	PAIR TRANSISTOR	
Q6110	2SA1577/QR/-X	TRANSISTOR	
Q6111	2SC4617/QR/-X	TRANSISTOR	
	or 2SC4738/YG/-X	TRANSISTOR	
Q6112	DTC144EE	TRANSISTOR	
	or PDTC144EE	TRANSISTOR	
	or UN9213J	TRANSISTOR	
	or RN1104	TRANSISTOR	

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
Q6113	HN1A01FU/G/-X	PAIR TRANSISTOR	
	or PUMT1	PAIR TRANSISTOR	
Q6114	2SC4617/QR/-X	TRANSISTOR	
	or 2SC4738/YG/-X	TRANSISTOR	
D6101	EP10LA03	SB DIODE	
D6102	EP10LA03	SB DIODE	
D6103	EP10LA03	SB DIODE	
D6104	EP10LA03	SB DIODE	
D6105	EP10LA03	SB DIODE	
D6106	1SS383	SB DIODE	
D6107	MA8091/L/-X	ZENER DIODE	
D6108	1SS383	SB DIODE	
R6101	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R6102	NRSA6AJ-184W	MG RESISTOR	180kΩ,1/16W
R6104	NRVA6AD-472W	CMF RESISTOR	4.7kΩ,1/16W
R6105	NRVA6AD-113W	CMF RESISTOR	11kΩ,1/16W
R6106	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R6107	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R6108	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R6109	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R6110	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R6111	NRSA6AJ-4R7W	MG RESISTOR	4.7Ω,1/16W
R6113	NRVA6AD-223W	CMF RESISTOR	22kΩ,1/16W
R6114	NRVA6AD-113W	CMF RESISTOR	11kΩ,1/16W
R6116	NRSA6AJ-4R7W	MG RESISTOR	4.7Ω,1/16W
R6118	NRVA6AD-333W	CMF RESISTOR	33kΩ,1/16W
R6119	NRVA6AD-473W	CMF RESISTOR	47kΩ,1/16W
R6120	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R6121	NRSA6AJ-4R7W	MG RESISTOR	4.7Ω,1/16W
R6122	NRVA6AD-243W	CMF RESISTOR	24kΩ,1/16W
R6123	NRVA6AD-302W	CMF RESISTOR	3kΩ,1/16W
R6124	NRVA6AD-104W	CMF RESISTOR	100kΩ,1/16W
R6125	NRVA6AD-123W	CMF RESISTOR	12kΩ,1/16W
R6126	NRVA6AD-103W	CMF RESISTOR	10kΩ,1/16W
R6127	NRSA6AJ-4R7W	MG RESISTOR	4.7Ω,1/16W
R6128	NRVA6AD-473W	CMF RESISTOR	47kΩ,1/16W
R6129	NRVA6AD-562W	CMF RESISTOR	5.6kΩ,1/16W
R6130	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R6131	NRVA6AD-223W	CMF RESISTOR	22kΩ,1/16W
R6132	NRVA6AD-473W	CMF RESISTOR	47kΩ,1/16W
R6133	NRSA6AJ-4R7W	MG RESISTOR	4.7Ω,1/16W
R6134	NRVA6AD-273W	CMF RESISTOR	27kΩ,1/16W
R6135	NRVA6AD-472W	CMF RESISTOR	4.7kΩ,1/16W
R6136	NRVA6AD-473W	CMF RESISTOR	47kΩ,1/16W
R6137	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R6138	NRSA6AJ-4R7W	MG RESISTOR	4.7Ω,1/16W
R6139	NRVA6AD-272W	CMF RESISTOR	2.7kΩ,1/16W
R6140	NRVA6AD-623W	CMF RESISTOR	62kΩ,1/16W
R6141	NRVA6AD-392W	CMF RESISTOR	3.9kΩ,1/16W
R6142	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R6143	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R6144	NRSA6AJ-273W	MG RESISTOR	27kΩ,1/16W
R6145	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
R6146	NRVA6AD-513W	CMF RESISTOR	51kΩ,1/16W
R6147	NRSA6AD-823W	MG RESISTOR	82kΩ,1/16W
R6148	NRVA6AD-473W	CMF RESISTOR	47kΩ,1/16W
R6149	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R6151	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R6152	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R6153	NRVA6AD-623W	CMF RESISTOR	62kΩ,1/16W
R6155	NRVA6AD-683W	CMF RESISTOR	68kΩ,1/16W
R6156	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R6157	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	R6158	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
	R6159	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
	R6160	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
	C6101	NCB21CK-105X	CAPACITOR	1µF,16V
	C6102	NCB21CK-105X	CAPACITOR	1µF,16V
	C6103	NBPE1CM-106X	T CAPACITOR	10µF,16V
	C6104	NCBA1AK-104W	CAPACITOR	0.1µF,10V
	C6105	NCF31AZ-105X	CAPACITOR	1µF,10V
	C6106	NCBA1CK-103W	CAPACITOR	0.01µF,16V
	C6107	NCB21CK-105X	CAPACITOR	1µF,16V
	C6108	NCF31AZ-105X	CAPACITOR	1µF,10V
	C6109	NCBA1EK-472W	CAPACITOR	0.0047µF,25V
	C6110	NCBA1CK-223W	CAPACITOR	0.022µF,16V
	C6111	NCBA1AK-104W	CAPACITOR	0.1µF,10V
	C6112	NCBA1HK-272W	CAPACITOR	0.0027µF,50V
	C6113	NCBA1AK-104W	CAPACITOR	0.1µF,10V
	C6114	NCBA1HK-561W	CAPACITOR	560pF,50V
	C6115	NCBA1HK-561W	CAPACITOR	560pF,50V
	C6117	NCBA1CK-103W	CAPACITOR	0.01µF,16V
	C6118	NDCA1HJ-101W	CAPACITOR	100pF,50V
	C6119	NBE20JM-106X	T CAPACITOR	10µF,6.3V
	C6120	NCF31AZ-105X	CAPACITOR	1µF,10V
	C6121	NCB21CK-105X	CAPACITOR	1µF,16V
	C6122	NCB10JK-106X	CAPACITOR	10µF,6.3V
	C6123	NCBA1HK-102W	CAPACITOR	0.001µF,50V
	C6127	NCB21CK-105X	CAPACITOR	1µF,16V
	C6128	NCB10JK-106X	CAPACITOR	10µF,6.3V
	C6129	NCBA1EK-472W	CAPACITOR	0.0047µF,25V
	C6130	NCB21CK-105X	CAPACITOR	1µF,16V
	C6131	NCB21CK-105X	CAPACITOR	1µF,16V
	C6133	NCB31CK-683X	CAPACITOR	0.068µF,16V
	C6134	NCB21CK-105X	CAPACITOR	1µF,16V
	C6135	NCB21CK-105X	CAPACITOR	1µF,16V
	C6137	NCB31AK-224X	CAPACITOR	0.22µF,10V
	C6138	NCB21CK-105X	CAPACITOR	1µF,16V
	C6139	NCB10JK-106X	CAPACITOR	10µF,6.3V
	C6140	NCBA1HK-102W	CAPACITOR	0.001µF,50V
	C6141	NCB21CK-105X	CAPACITOR	1µF,16V
	C6142	NCB21CK-105X	CAPACITOR	1µF,16V
	C6143	NCB21CK-105X	CAPACITOR	1µF,16V
	C6144	NCB11EK-105X	CAPACITOR	1µF,25V
	C6145	NCBA1HK-102W	CAPACITOR	0.001µF,50V
	C6146	NCBA1CK-103W	CAPACITOR	0.01µF,16V
	C6147	NCB21CK-105X	CAPACITOR	1µF,16V
	C6148	NCB21CK-105X	CAPACITOR	1µF,16V
	C6149	NCB21CK-105X	CAPACITOR	1µF,16V
	C6150	NCB11EK-105X	CAPACITOR	1µF,25V
	C6151	NCB21CK-105X	CAPACITOR	1µF,16V
	C6152	NCB21CK-105X	CAPACITOR	1µF,16V
	L6101	NQLZ011-4R7X	COIL	4.7µH
	L6102	NQLZ011-4R7X	COIL	4.7µH
	L6103	NQLZ007-390X	COIL	39µH
	L6107	NQLZ011-390X	COIL	39µH
	L6108	NQLZ011-470X	COIL	47µH
	L6109	NQLZ011-470X	COIL	47µH
	L6110	NQLZ011-390X	COIL	39µH
	L6111	NQL144K-220X	COIL	22µH
	L6112	NQLZ011-221X	COIL	220µH
	CN601	QGB0507M1-80X	CONNECTOR	
	CN602	QGF0505F2-12X	FPC CONNECTOR	
⚠	F6101	NMFZ007-2R0X-K	FUSE	T2.0A
⚠	F6102	NMFZ007-2R0X-K	FUSE	T2.0A
⚠	F6103	NMFZ007-R50X-K	FUSE	T0.5A

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	

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MONITOR BOARD ASSEMBLY <06>

	PW	YB10306C-01	MONITOR BOARD ASSY	
	IC7301	CXA3268AR-B	IC	
	IC7302	AT25040N-10SC-X	IC	
		or 25LC040-I/SN-X	IC	
	IC7401	CXA3503R-B	IC	
	IC7501	TL1451CPW	IC	
	IC7502	TC7SH04FU	IC(DIGITAL)	
		or SN74AHC1G04K	IC	
	Q7301	2SA1774/QR/-X	TRANSISTOR	
	Q7302	2SA1577/QR/-X	TRANSISTOR	
	Q7303	DTC144EE	TRANSISTOR	
		or UN9213J	TRANSISTOR	
		or RN1104	TRANSISTOR	
	Q7304	2SC4617/QR/-X	TRANSISTOR	
		or 2SC4738/YG/-X	TRANSISTOR	
	Q7305	2SA1774/QR/-X	TRANSISTOR	
		or 2SA1832/YG/-X	TRANSISTOR	
	Q7306	2SC4617/QR/-X	TRANSISTOR	
		or 2SC4738/YG/-X	TRANSISTOR	
	Q7307	2SA1774/QR/-X	TRANSISTOR	
		or 2SA1832/YG/-X	TRANSISTOR	
	Q7401	2SA1774/QR/-X	TRANSISTOR	
		or 2SA1832/YG/-X	TRANSISTOR	
	Q7501	UMD3N	TRANSISTOR	
	Q7502	SSM3K01F	MOS FET	
	Q7503	2SC4617/QR/-X	TRANSISTOR	
	Q7504	XP6401	TRANSISTOR	
	D7301	MA365	VARI CAP DIODE	
	D7302	UDZ2.7B	ZENER DIODE	
	D7303	UDZ4.3B	ZENER DIODE	
	D7401	MA365	VARI CAP DIODE	
	D7501	MA142WK	DIODE	
	R7301	NRSA63J-271X	MG RESISTOR	270Ω,1/16W
	R7302	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
	R7303	NRVA63D-333X	CMF RESISTOR	33kΩ,1/16W
	R7304	NRVA63D-153X	CMF RESISTOR	15kΩ,1/16W
	R7305	NRSA63J-100X	MG RESISTOR	10Ω,1/16W
	R7306	NRSA63J-100X	MG RESISTOR	10Ω,1/16W
	R7307	NRSA63J-100X	MG RESISTOR	10Ω,1/16W
	R7314	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
	R7315	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
	R7316	NRSA63J-472X	MG RESISTOR	4.7kΩ,1/16W
	R7320	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W
	R7321	NVP0016-473X	TRIM RESISTOR,PLL(MONI)	
	R7322	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
	R7323	NRSA63J-333X	MG RESISTOR	33kΩ,1/16W
	R7324	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
	R7325	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
	R7326	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
	R7330	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
	R7331	NRSA63J-472X	MG RESISTOR	4.7kΩ,1/16W
	R7332	NRSA63J-100X	MG RESISTOR	10Ω,1/16W
	R7333	NRSA63J-223X	MG RESISTOR	22kΩ,1/16W
	R7334	NRSA63J-223X	MG RESISTOR	22kΩ,1/16W
	R7335	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
	R7336	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W
	R7401	NRSA63J-271X	MG RESISTOR	270Ω,1/16W
	R7402	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
	R7403	NRVA63D-333X	CMF RESISTOR	33kΩ,1/16W

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	R7404	NRVA63D-153X	CMF RESISTOR	15kΩ,1/16W
	R7405	NRSA63J-100X	MG RESISTOR	10Ω,1/16W
	R7406	NRSA63J-100X	MG RESISTOR	10Ω,1/16W
	R7407	NRSA63J-100X	MG RESISTOR	10Ω,1/16W
	R7414	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
	R7415	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
	R7416	NRSA63J-472X	MG RESISTOR	4.7kΩ,1/16W
	R7417	NRVA63D-562X	CMF RESISTOR	5.6kΩ,1/16W
	R7418	NRVA63D-562X	CMF RESISTOR	5.6kΩ,1/16W
	R7420	NRSA63J-393X	MG RESISTOR	39kΩ,1/16W
	R7421	NVP0016-473X	TRIM RESISTOR,PLL(VF)	
	R7422	NRSA63J-752X	MG RESISTOR	7.5kΩ,1/16W
	R7423	NRSA63J-333X	MG RESISTOR	33kΩ,1/16W
	R7424	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
	R7425	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
	R7426	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
	R7501	NRVA63D-103X	CMF RESISTOR	10kΩ,1/16W
	R7502	NRVA63D-123X	CMF RESISTOR	12kΩ,1/16W
	R7503	NRVA63D-334X	CMF RESISTOR	330kΩ,1/16W
	R7504	NRSA63J-394X	MG RESISTOR	390kΩ,1/16W
	R7505	NRSA63J-562X	MG RESISTOR	5.6kΩ,1/16W
	R7506	NRSA63J-183X	MG RESISTOR	18kΩ,1/16W
	R7507	NRSA63J-472X	MG RESISTOR	4.7kΩ,1/16W
	R7508	NRS181J-335X	MG RESISTOR	3.3MΩ,1/8W
	R7509	NRS181J-335X	MG RESISTOR	3.3MΩ,1/8W
	R7510	NRSA63J-223X	MG RESISTOR	22kΩ,1/16W
	R7511	NRSA63J-751X	MG RESISTOR	750Ω,1/16W
	R7512	NRSA63J-822X	MG RESISTOR	8.2kΩ,1/16W
	R7513	NRSA63J-273X	MG RESISTOR	27kΩ,1/16W
	R7514	NRSA63J-124X	MG RESISTOR	120kΩ,1/16W
	R7515	NRSA63J-151X	MG RESISTOR	150Ω,1/16W
	R7516	NRSA63J-151X	MG RESISTOR	150Ω,1/16W
	R7517	NRSA63J-122X	MG RESISTOR	1.2kΩ,1/16W
	R7518	NRSA63J-332X	MG RESISTOR	3.3kΩ,1/16W
	R7519	NRSA63J-163X	MG RESISTOR	16kΩ,1/16W
	R7520	NRSA63J-393X	MG RESISTOR	39kΩ,1/16W
	R7521	NRVA63D-153X	CMF RESISTOR	15kΩ,1/16W
	R7523	NRVA63D-184X	CMF RESISTOR	180kΩ,1/16W
	R7524	NRVA63D-114X	CMF RESISTOR	110kΩ,1/16W
	R7525	NRSA63J-333X	MG RESISTOR	33kΩ,1/16W
	R7526	NRSA63J-221X	MG RESISTOR	220Ω,1/16W
	C7301	NCB21CK-105X	CAPACITOR	1μF,16V
	C7302	NCB31CK-104X	CAPACITOR	0.1μF,16V
	C7303	NBE20JM-226X	T CAPACITOR	22μF,6.3V
	C7304	NCB31EK-103X	CAPACITOR	0.01μF,25V
	C7305	NCB21CK-105X	CAPACITOR	1μF,16V
	C7306	NCB21CK-105X	CAPACITOR	1μF,16V
	C7307	NCB21CK-105X	CAPACITOR	1μF,16V
	C7308	NBP41CM-106X	T CAPACITOR	10μF,16V
	C7309	NCB21CK-105X	CAPACITOR	1μF,16V
	C7310	NCB31CK-104X	CAPACITOR	0.1μF,16V
	C7311	NBP41CM-106X	T CAPACITOR	10μF,16V
	C7312	NCB31CK-104X	CAPACITOR	0.1μF,16V
	C7313	NCB31CK-104X	CAPACITOR	0.1μF,16V
	C7314	NBE20JM-226X	T CAPACITOR	22μF,6.3V
	C7315	NCB31CK-104X	CAPACITOR	0.1μF,16V
	C7316	NCB21CK-105X	CAPACITOR	1μF,16V
	C7317	NCB31CK-104X	CAPACITOR	0.1μF,16V
	C7318	NCB31CK-104X	CAPACITOR	0.1μF,16V
	C7319	NCB31CK-104X	CAPACITOR	0.1μF,16V
	C7320	NDC31HJ-300X	CAPACITOR	30pF,50V
	C7321	NCB31HK-102X	CAPACITOR	0.001μF,50V
	C7322	NCB31EK-103X	CAPACITOR	0.01μF,25V
	C7323	NCB31HK-682X	CAPACITOR	0.0068μF,50V

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	C7324	NCB11AK-335X	CAPACITOR	3.3μF,10V
	C7330	NCB21CK-105X	CAPACITOR	1μF,16V
	C7331	NCB10JK-106X	CAPACITOR	10μF,6.3V
	C7332	NCB21CK-105X	CAPACITOR	1μF,16V
	C7333	NCB21CK-105X	CAPACITOR	1μF,16V
	C7335	NCB31CK-104X	CAPACITOR	0.1μF,16V
	C7336	NCB21CK-105X	CAPACITOR	1μF,16V
	C7337	NCB21CK-105X	CAPACITOR	1μF,16V
	C7338	NCB31EK-103X	CAPACITOR	0.01μF,25V
	C7401	NCB21CK-105X	CAPACITOR	1μF,16V
	C7402	NCB31CK-104X	CAPACITOR	0.1μF,16V
	C7403	NBE20JM-226X	T CAPACITOR	22μF,6.3V
	C7404	NCB31EK-103X	CAPACITOR	0.01μF,25V
	C7405	NCB21CK-105X	CAPACITOR	1μF,16V
	C7406	NCB21CK-105X	CAPACITOR	1μF,16V
	C7407	NCB21CK-105X	CAPACITOR	1μF,16V
	C7408	NBP41CM-106X	T CAPACITOR	10μF,16V
	C7410	NCB31CK-104X	CAPACITOR	0.1μF,16V
	C7411	NBP41CM-106X	T CAPACITOR	10μF,16V
	C7412	NCB31CK-104X	CAPACITOR	0.1μF,16V
	C7413	NCB31CK-104X	CAPACITOR	0.1μF,16V
	C7414	NBE20JM-226X	T CAPACITOR	22μF,6.3V
	C7415	NCB31CK-104X	CAPACITOR	0.1μF,16V
	C7416	NCB21CK-105X	CAPACITOR	1μF,16V
	C7417	NCB31CK-104X	CAPACITOR	0.1μF,16V
	C7418	NCB31CK-104X	CAPACITOR	0.1μF,16V
	C7419	NCB31CK-104X	CAPACITOR	0.1μF,16V
	C7420	NDC31HJ-300X	CAPACITOR	30pF,50V
	C7421	NDC31HJ-221X	CAPACITOR	220pF,50V
	C7422	NCB31EK-103X	CAPACITOR	0.01μF,25V
	C7423	NCB31HK-682X	CAPACITOR	0.0068μF,50V
	C7424	NCB11AK-335X	CAPACITOR	3.3μF,10V
	C7425	NCB31EK-103X	CAPACITOR	0.01μF,25V
	C7501	NCB31CK-104X	CAPACITOR	0.1μF,16V
	C7502	NCB10JK-106X	CAPACITOR	10μF,6.3V
	C7503	NCB11AK-335X	CAPACITOR	3.3μF,10V
	C7504	NBP41CM-106X	T CAPACITOR	10μF,16V
	C7505	NCB31EK-103X	CAPACITOR	0.01μF,25V
	C7506	NBE90JM-685X	T CAPACITOR	6.8μF,6.3V
	C7507	NDC31HJ-331X	CAPACITOR	330pF,50V
	C7508	NCB31CK-104X	CAPACITOR	0.1μF,16V
	C7509	NBP21CM-685X	T CAPACITOR	6.8μF,16V
	L7301	NQL085J-3R3X	COIL	3.3μH
	L7302	NQL315K-100X	COIL	10μH
	L7303	NQL315K-100X	COIL	10μH
	L7304	NQL315K-100X	COIL	10μH
	L7401	NQL085J-100X	COIL	10μH
	L7402	NQL315K-100X	COIL	10μH
	L7501	NQL144K-220X	COIL	22μH
	T7501	NQS0052-001X	SW TRANSF	
	T7502	NAX0334-001	PIEZOELE TRANSF	
	CN7501	QGF0304F1-39X	FFC/FPC CONNECTOR	
	CN7502	QGF0517F1-24X	FPC CONNECTOR	
⚠	F7501	NMFZ009-R50X-J1	FUSE	T0.5A

****

JACK BOARD ASSEMBLY <07>

REF No.	PART No.	PART NAME, DESCRIPTION
PW1	YB10305A1-03	JACK BOARD ASSY, A,B
	YB10305A1-04	JACK BOARD ASSY, C,D
IC2822	TC7S04FU	IC(DIGITAL)
Q2801	DTC144EE	TRANSISTOR

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
	or UN9213J	TRANSISTOR	
	or RN1104	TRANSISTOR	
Q2821	2SC4617/QR/-X	TRANSISTOR	
D2821	EMZ6.8N	ZENER DIODE	
D2822	EMZ6.8N	ZENER DIODE	
D2823	EMZ6.8N	ZENER DIODE	
D2825	RB715F	SB DIODE	
R2801	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2802	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2803	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2804	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2805	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2806	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2807	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2808	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2809	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W
R2810	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R2812	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R2813	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W
R2814	NRSA63J-104X	MG RESISTOR	100kΩ,1/16W
R2816	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2818	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W
R2821	NRSA63J-101X	MG RESISTOR	100Ω,1/16W
R2822	NRSA63J-470X	MG RESISTOR	47Ω,1/16W
R2823	NRSA63J-101X	MG RESISTOR	100Ω,1/16W
R2824	NRSA63J-101X	MG RESISTOR	100Ω,1/16W
R2825	NRSA63J-101X	MG RESISTOR	100Ω,1/16W
R2826	NRSA63J-101X	MG RESISTOR	100Ω,1/16W
R2828	NRSA63J-472X	MG RESISTOR	4.7kΩ,1/16W
R2829	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R2830	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2831	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2832	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2833	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2841	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2844	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2845	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2848	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2861	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R2862	NRSA63J-391X	MG RESISTOR	390Ω,1/16W
R2883	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2885	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
C2802	NBE80JM-106X	T CAPACITOR	10µF,6.3V
C2821	NCB31EK-103X	CAPACITOR	0.01µF,25V
C2841	NCB31CK-683X	CAPACITOR	0.068µF,16V
C2842	NCB31CK-683X	CAPACITOR	0.068µF,16V
C2843	NCB31HK-102X	CAPACITOR	0.001µF,50V
C2844	NCB31HK-102X	CAPACITOR	0.001µF,50V
C2848	NCB31HK-472X	CAPACITOR	0.0047µF,50V
C2849	NCB31HK-472X	CAPACITOR	0.0047µF,50V
C2881	NCB31EK-103X	CAPACITOR	0.01µF,25V
C2882	NCB31EK-103X	CAPACITOR	0.01µF,25V
C2883	NCB31EK-103X	CAPACITOR	0.01µF,25V
L2801	NQR0129-002X	FERRITE BEAD	
L2821	NQR0006-001X	FERRITE BEAD	
L2841	NQR0251-004X	FERRITE BEAD	
L2842	NQR0251-004X	FERRITE BEAD	
L2843	NQR0251-004X	FERRITE BEAD	
L2844	NQR0251-004X	FERRITE BEAD	
L2845	NQR0251-004X	FERRITE BEAD	
J301	NNZ0038-001X	D CONNECTOR,PRINTER,A,B	
	NNZ0056-001X	D CONNECTOR,PRINTER,C,D	
J302	QNS0012-001	3.5 JACK,HP	
J303	QNS0078-001	3.5 JACK,AV	

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
CN301	QGF0301F1-45X	FPC CONNECTOR	
CN302	NNZ0042-001X	SD CARD CONNECTOR	
CN303	QGF0501F1-11X	FPC CONNECTOR	
CN304	QGA1201F2-02X	CONNECTOR	
⚠ BT301	QAB0020-001	LI BATTERY	

****

EJECT BOARD ASSEMBLY <08>

PW2	YB10305A2-01	EJECT BOARD ASSY	
R2421	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R2424	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R2425	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
S2421	NSW0094-001X	DETECT SWITCH,EJECT SW	
CN2421	QGF0512C1-12X	FPC CONNECTOR	
CN2422	QGF0501F2-13X	FPC CONNECTOR	

****

DECK OPE. BOARD ASSEMBLY <09>

PW3	YB10305A3-02	DECK OPE.BOARD ASSY	
R2432	NRSA63J-152X	MG RESISTOR	1.5kΩ,1/16W
R2433	NRSA63J-182X	MG RESISTOR	1.8kΩ,1/16W
R2434	NRSA63J-272X	MG RESISTOR	2.7kΩ,1/16W
R2437	NRSA63J-152X	MG RESISTOR	1.5kΩ,1/16W
R2438	NRSA63J-182X	MG RESISTOR	1.8kΩ,1/16W
R2439	NRSA63J-272X	MG RESISTOR	2.7kΩ,1/16W
R2440	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2441	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2442	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2443	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2444	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2445	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
C2431	NCB31EK-103X	CAPACITOR	0.01µF,25V
S2431	NSW0145-001X	TACT SWITCH,STOP	
S2432	NSW0145-001X	TACT SWITCH,REW	
S2433	NSW0145-001X	TACT SWITCH,PB	
S2434	NSW0145-001X	TACT SWITCH,FF	
S2435	NSW0145-001X	TACT SWITCH,P MEDIA	
S2436	NSW0071-001X	DETECT SWITCH,MONI OPEN	
CN2431	QGF0517F1-08X	FPC CONNECTOR	
CN2432	QGF0517F1-06X	FPC CONNECTOR	

****

CCD BOARD ASSEMBLY <10>

PW	YB10307A-01	CCD BOARD ASSY	
Q5201	2SC3935/Q/-X	TRANSISTOR	
R5201	NRSA63J-122X	MG RESISTOR	1.2kΩ,1/16W
C5202	NCF31EZ-104X	CAPACITOR	0.1µF,25V
C5203	NBE41AM-476X	T CAPACITOR	47µF,10V
C5204	NCB31CK-104X	CAPACITOR	0.1µF,16V
C5205	NCB31CK-104X	CAPACITOR	0.1µF,16V
C5206	NBZ0003-475X	T CAPACITOR	4.7µF
C5207	NCF31EZ-104X	CAPACITOR	0.1µF,25V
C5208	NCB31HK-222X	CAPACITOR	0.0022µF,50V
C5209	NCB21EK-104X	CAPACITOR	0.1µF,25V
WR1	WJR0018-001A	E-SH C WIRE C-F,CCD OUT-MAIN CN101	

SECTION 4
CHARTS AND DIAGRAMS

NOTES OF SCHEMATIC DIAGRAM

Safety precautions
The Components identified by the symbol ⚠ are critical for safety. For continued safety, replace safety critical components only with manufacturer's recommended parts.

1. Units of components on the schematic diagram

Unless otherwise specified.

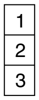
1) All resistance values are in ohm. 1/6 W, 1/8 W (refer to parts list).
   Chip resistors are 1/16 W.
   K: KΩ (1000Ω), M: MΩ (1000KΩ)
2) All capacitance values are in μF, (P: PF).
3) All inductance values are in μH, (m: mH).
4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

2. Indications of control voltage

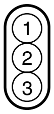
AUX : Active at high.

$\overline{\text{AUX}}$ or AUX(L) : Active at low.

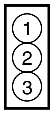
3. Interpreting Connector indications



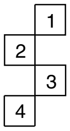
Removable connector



Wire soldered directly on board



Non-removable Board connector

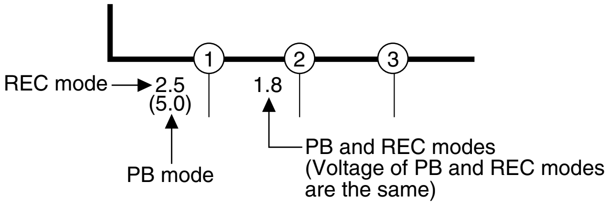


Board to Board

→
←
↔
Connected pattern on board
The arrows indicate signal path

4. Voltage measurement

1) Regulator (DC/DC CONV) circuits
   REC : Colour bar signal.
   PB : Alignment tape (Colour bar).
   — : Unmeasurable or unnecessary to measure.
4) Indication on schematic diagram
   Voltage Indications for REC and PB mode on the schematic diagram are as shown below.



Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

5. Signal path Symbols

The arrows indicate the signal path as follows.

NOTE : The arrow is DVC unique object.

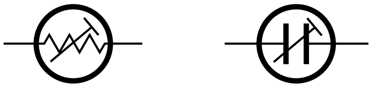
⇨ Playback signal path
▭▶ Playback and recording signal path
➡ Recording signal path (including E-E signal path)
⇨▷ Capstan servo path
➡▶ Drum servo path

(Example)

⇨ R-Y Playback R-Y signal path
➡ Y Recording Y signal path

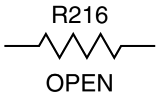
6. Indication of the parts for adjustments

The parts for the adjustments are surrounded with the circle as shown below.



7. Indication of the parts not mounted on the circuit board

"OPEN" is indicated by the parts not mounted on the circuit board.



CIRCUIT BOARD NOTES

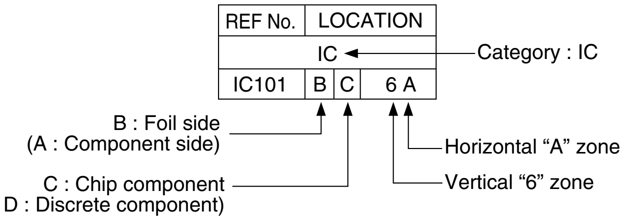
1. Foil and Component sides

1) Foil side (B side) :
Parts on the foil side seen from foil face (pattern face) are indicated.

2) Component side (A side) :
Parts on the component side seen from component face (parts face) indicated.

2. Parts location guides

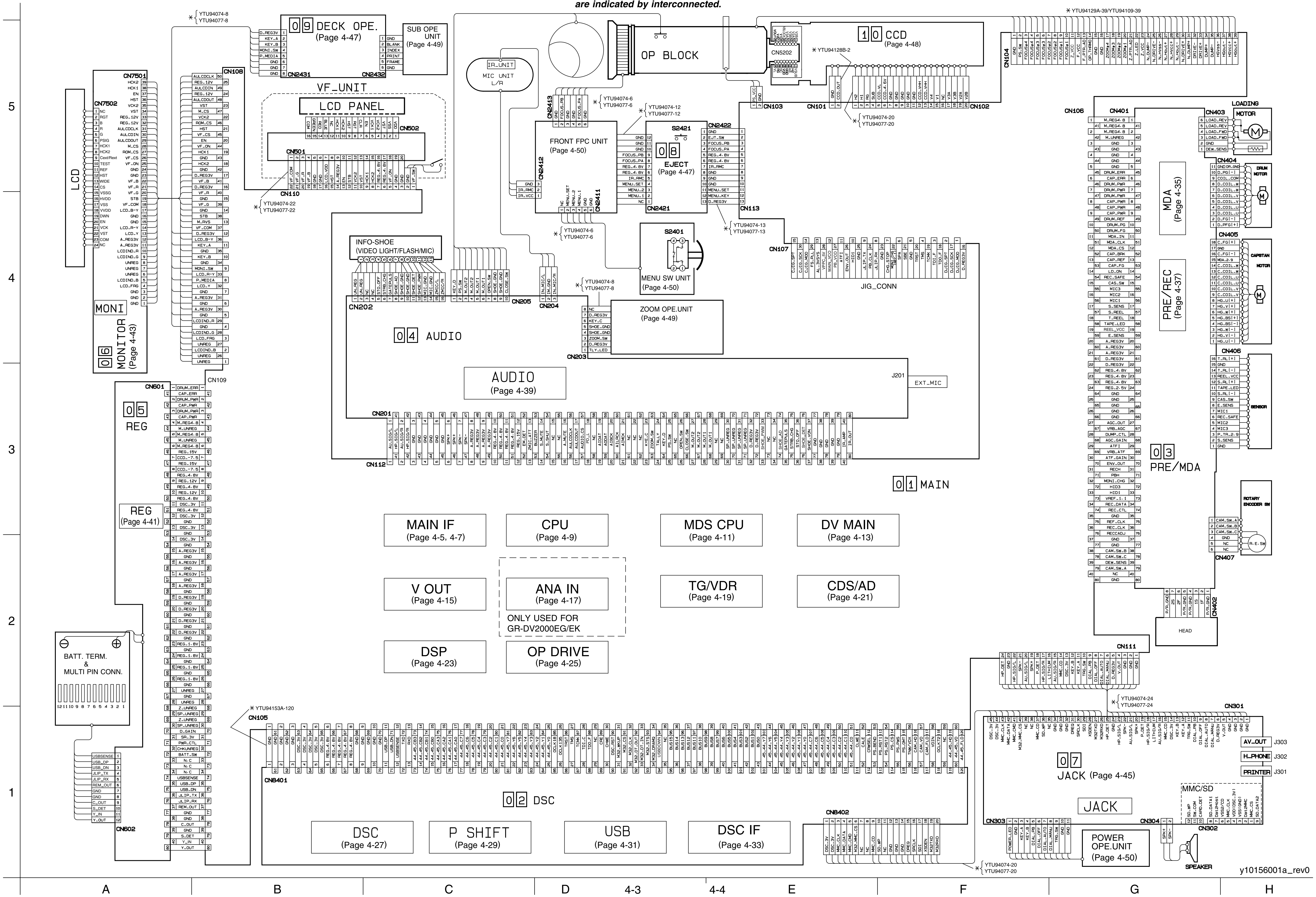
Parts location are indicated by guide scale on the circuit board.


REF No.
LOCATION
IC
Category : IC
IC101
B
C
6 A
B : Foil side
(A : Component side)
C : Chip component
D : Discrete component)
Horizontal “A” zone
Vertical “6” zone

Note: For general information in service manual, please refer to the Service Manual of GENERAL INFORMATION Edition 4 No. 82054D (January 1994).

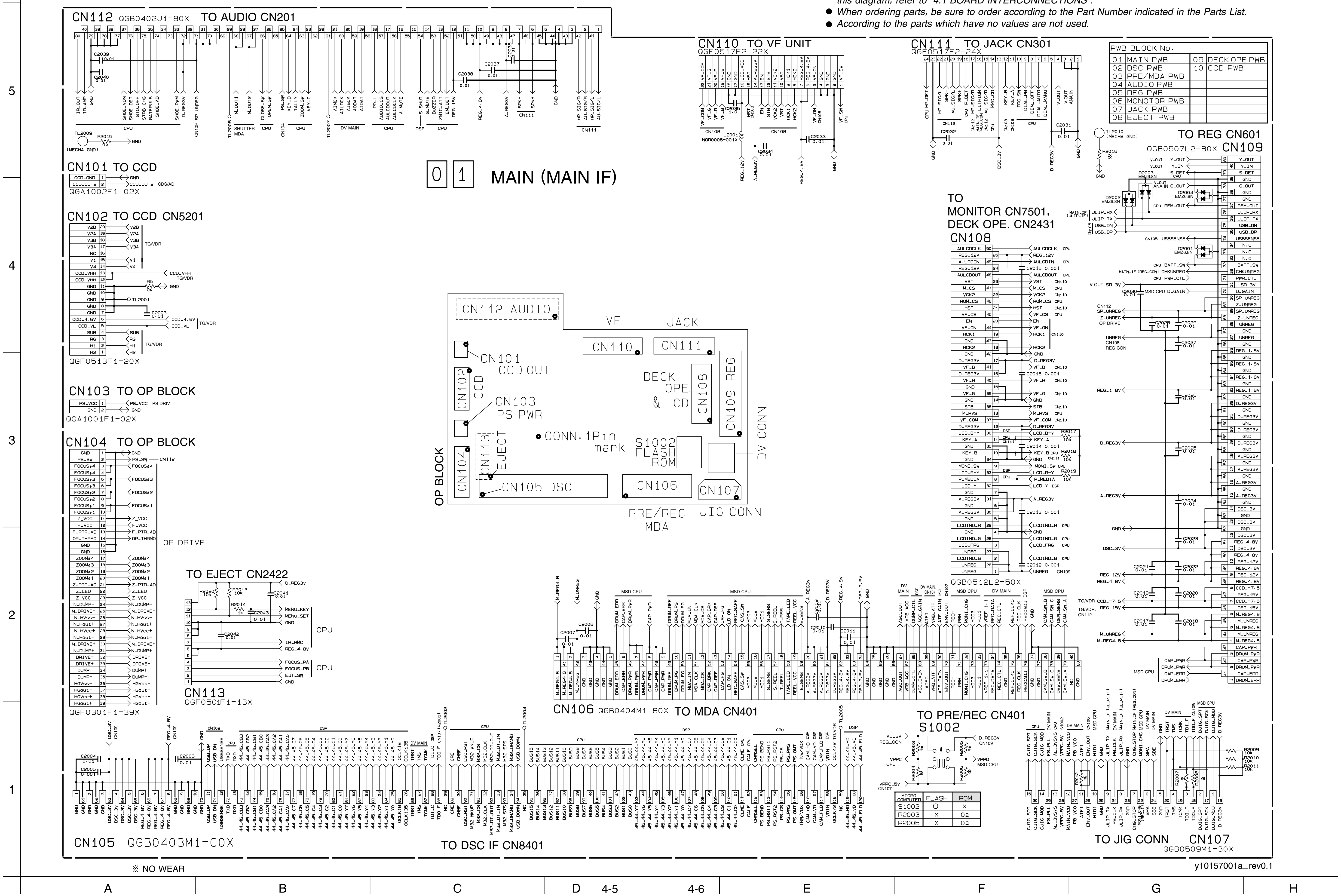
4.1 BOARD INTERCONNECTIONS

NOTE) ※ : The number of patch cords are indicated by interconnected.


LCD
CN7501
CN7502
06 MONITOR (Page 4-43)
MONI
09 DECK OPE. (Page 4-47)
CN2431
CN2432
SUB OPE UNIT (Page 4-49)
VF_UNIT
LCD PANEL
CN502
CN501
CN110
CN108
CN109
※ YTU94074-8 YTU94077-8
※ YTU94074-22 YTU94077-22
IR_UNIT
MIC UNIT L/R
OP BLOCK
CN5202
※ YTU94128B-2
10 CCD (Page 4-48)
※ YTU94129A-39/YTU94109-39
CN104
CN103
CN101
CN102
※ YTU94074-20 YTU94077-20
※ YTU94074-6 YTU94077-6
※ YTU94074-12 YTU94077-12
FRONT FPC UNIT (Page 4-50)
CN2413
CN2412
CN2411
S2421
08 EJECT (Page 4-47)
CN2422
CN2421
CN113
※ YTU94074-13 YTU94077-13
S2401
MENU SW UNIT (Page 4-50)
CN107
JIG_CONN
INFO-SHOE (VIDEO LIGHT/FLASH/MIC)
CN202
CN205
CN204
※ YTU94074-8 YTU94077-8
ZOOM OPE.UNIT (Page 4-49)
CN203
04 AUDIO
AUDIO (Page 4-39)
J201
EXT_MIC
CN201
CN112
05 REG
CN601
REG (Page 4-41)
BATT. TERM. & MULTI PIN CONN.
CN602
01 MAIN
MAIN IF (Page 4-5, 4-7)
CPU (Page 4-9)
MDS CPU (Page 4-11)
DV MAIN (Page 4-13)
V OUT (Page 4-15)
ANA IN (Page 4-17)
ONLY USED FOR GR-DV2000EG/EK
TG/VDR (Page 4-19)
CDS/AD (Page 4-21)
DSP (Page 4-23)
OP DRIVE (Page 4-25)
※ YTU94153A-120
CN105
CN8401
02 DSC
DSC (Page 4-27)
P SHIFT (Page 4-29)
USB (Page 4-31)
DSC IF (Page 4-33)
CN8402
※ YTU94074-20 YTU94077-20
CN106
CN401
CN403
LOADING MOTOR
CN404
DRUM MOTOR
CN405
CAPSTAN MOTOR
CN406
SENSOR
MDA (Page 4-35)
PRE/REC (Page 4-37)
03 PRE/MDA
ROTARY ENCODER SW
CN407
CN402
HEAD
CN111
※ YTU94074-24 YTU94077-24
CN301
07 JACK (Page 4-45)
JACK
AV_OUT J303
H_PHONE J302
PRINTER J301
MMC/SD
CN302
CN303
CN304
POWER OPE.UNIT (Page 4-50)
SPEAKER
y10156001a_rev0
1
2
3
4
5
A
B
C
D
E
F
G
H

4.2 MAIN IF SCHEMATIC DIAGRAM (1/2)

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*
- *According to the parts which have no values are not used.*



01 MAIN (MAIN IF)
CN112 QGB0402J1-80X TO AUDIO CN201
CN110 TO VF UNIT QGF0517F2-22X
CN111 TO JACK CN301 QGF0517F2-24X
PWB BLOCK No.
01 MAIN PWB
02 DSC PWB
03 PRE/MDA PWB
04 AUDIO PWB
05 REG PWB
06 MONOTOR PWB
07 JACK PWB
08 EJECT PWB
09 DECK OPE PWB
10 CCD PWB
TO REG CN601 QGB0507L2-80X CN109
CN101 TO CCD QGA1002F1-02X
CN102 TO CCD CN5201 QGF0513F1-20X
CN103 TO OP BLOCK QGA1001F1-02X
CN104 TO OP BLOCK QGF0301F1-39X
OP DRIVE
TO MONITOR CN7501, DECK OPE. CN2431 CN108 QGB0512L2-50X
TO EJECT CN2422
CN113 QGF0501F1-13X
CN106 QGB0404M1-80X TO MDA CN401
TO PRE/REC CN401 S1002
MICRO COMPUTER | FLASH | ROM
S1002 | O | X
R2003 | X | 0Ω
R2005 | X | 0Ω
CN105 QGB0403M1-C0X
TO DSC IF CN8401
TO JIG CONN CN107 QGB0509M1-30X
CN112 AUDIO
VF
JACK
CN110
CN111
CN101 CCD OUT
CN102 CCD
CN103 PS PWR
CN104
OP BLOCK
CN113 EJECT
CN105 DSC
CONN.1Pin mark
DECK OPE. & LCD
CN108
CN109 REG
DV CONN
S1002 FLASH ROM
CN106
CN107
PRE/REC MDA
JIG CONN
1
2
3
4
5
A
B
C
D
E
F
G
H

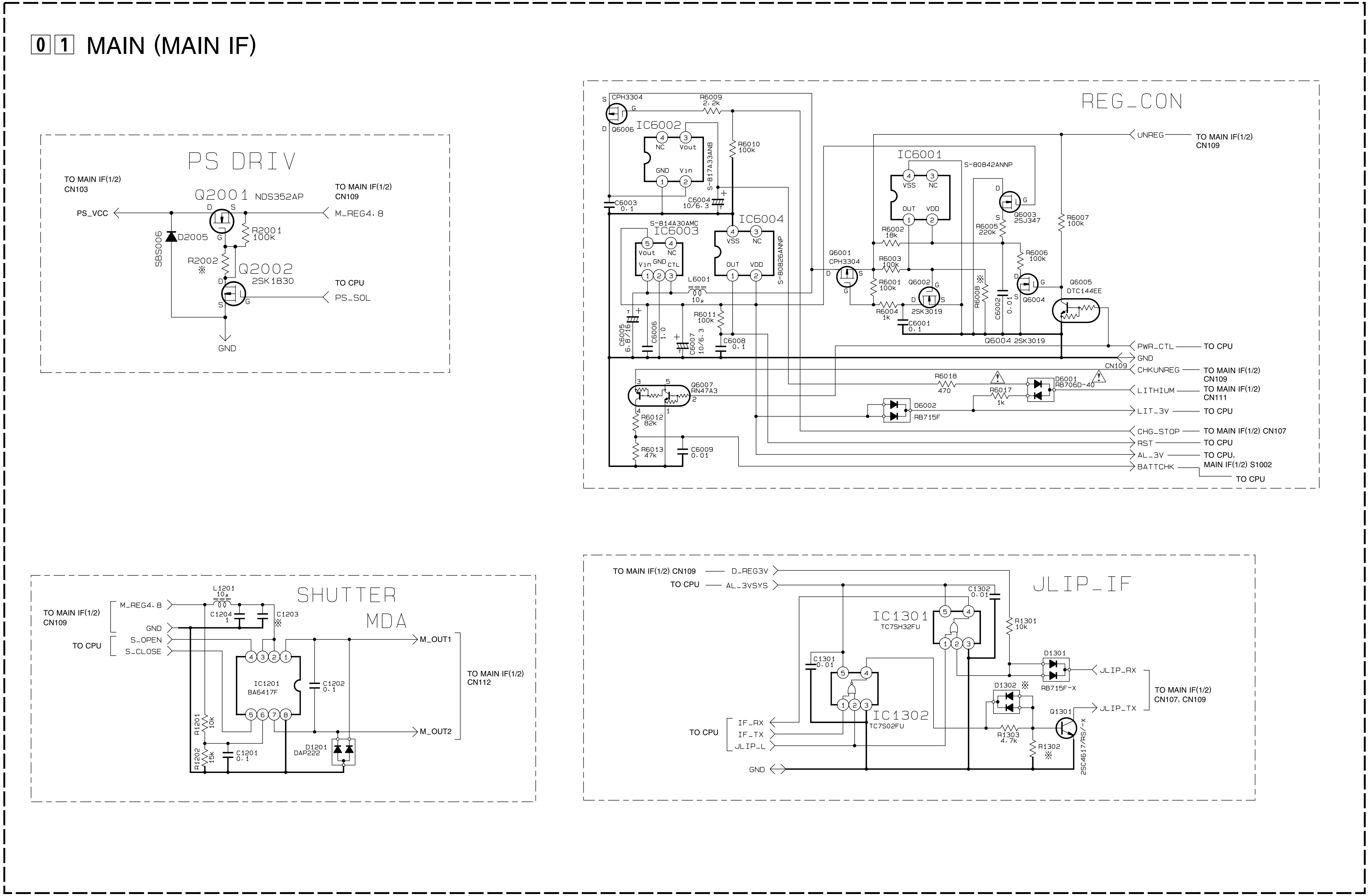
※ NO WEAR

y10157001a_rev0.1

4.3 MAIN IF SCHEMATIC DIAGRAM (2/2)

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*
- *According to the parts which have no values are not used.*

0 1 MAIN (MAIN IF)

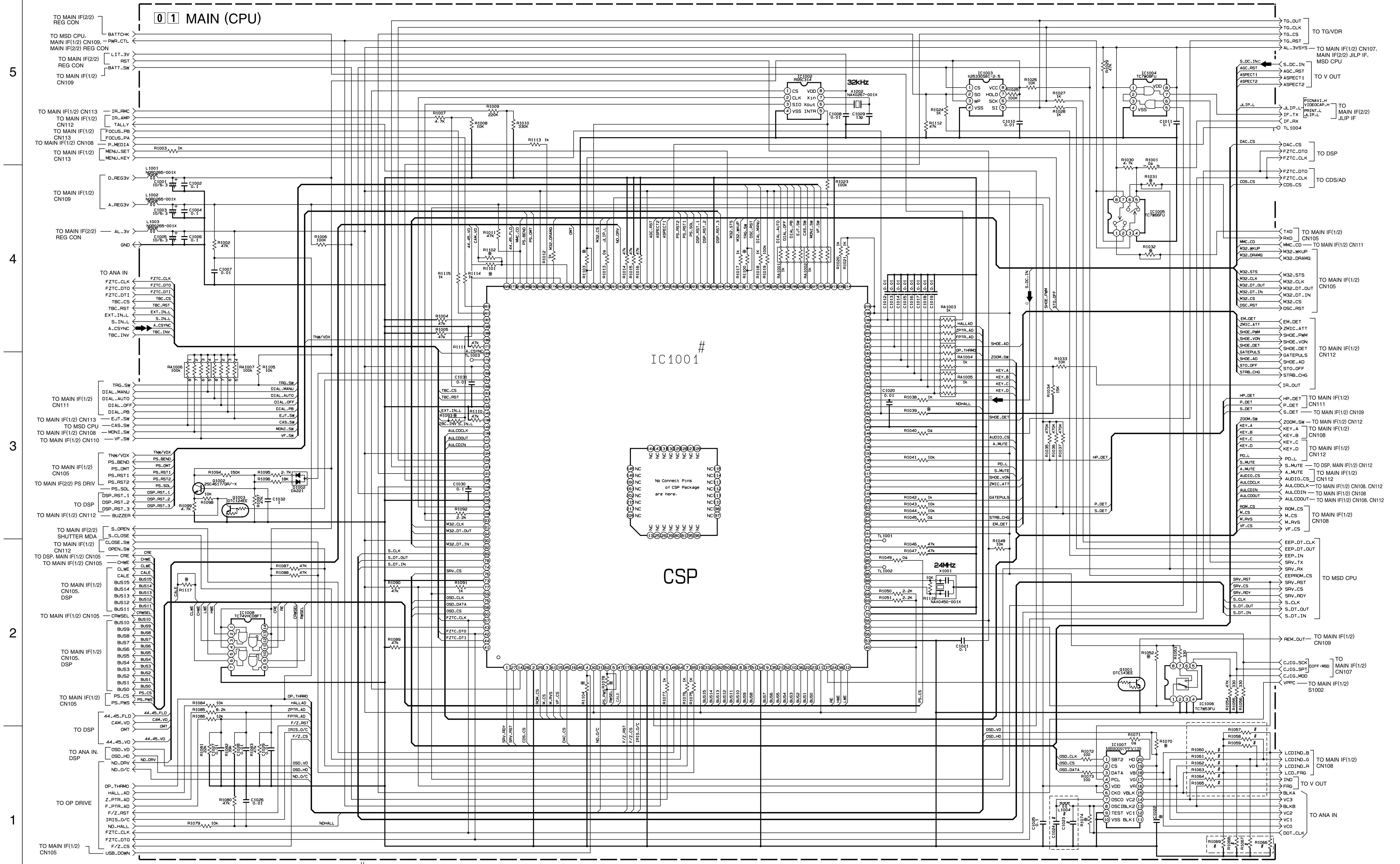

PS DRIV
TO MAIN IF(1/2) CN103
PS_VCC
Q2001 NDS352AP
D S G
TO MAIN IF(1/2) CN109
M_REG4.8
R2001 100k
D2005
SBS006
R2002 ※
Q2002 2SK1830
D G S
TO CPU
PS_SOL
GND
REG_CON
S CPH3304 G D Q6006
R6009 2.2k
IC6002
4 NC 3 Vout GND 1 Vin 2
S-817A33ANB
R6010 100k
C6003 0.1
C6004 10/6.3
S-814A30AMC
IC6003
5 Vout 4 NC Vin GND CTL 1 2 3
IC6004
4 VSS 3 NC OUT 1 VDD 2
S-80826ANNP
L6001 10μ
R6011 100k
C6005 6.8/16
C6006 1.0
C6007 10/6.3
C6008 0.1
Q6007 RN47A3
3 5 4 1 2
R6012 82k
R6013 47k
C6009 0.01
IC6001 S-80842ANNP
4 VSS 3 NC OUT 1 VDD 2
Q6001 CPH3304 D S G
R6002 18k
R6003 100k
R6001 100k
R6004 1k
Q6002 2SK3019 G D S
C6001 0.1
R6005 220k
Q6003 2SJ347 D G S
R6008 ※
C6002 0.01
R6006 100k
Q6004 D G S
Q6004 2SK3019
R6007 100k
Q6005 DTC144EE
UNREG TO MAIN IF(1/2) CN109
PWR_CTL TO CPU
GND
CN109
CHKUNREG TO MAIN IF(1/2) CN109
R6018 470
R6017 1k
D6001 RB706D-40
LITHIUM TO MAIN IF(1/2) CN111
D6002 RB715F
LIT_3V TO CPU
CHG_STOP TO MAIN IF(1/2) CN107
RST TO CPU
AL_3V TO CPU, MAIN IF(1/2) S1002
BATTCHK TO CPU
SHUTTER MDA
TO MAIN IF(1/2) CN109
M_REG4.8
GND
TO CPU
S_OPEN
S_CLOSE
L1201 10μ
C1204 1
C1203 ※
4 3 2 1
IC1201 BA6417F
5 6 7 8
C1202 0.1
M_OUT1
M_OUT2
TO MAIN IF(1/2) CN112
R1201 10k
R1202 15k
C1201 0.1
D1201 DAP222
JLIP_IF
TO MAIN IF(1/2) CN109 D_REG3V
TO CPU AL_3VSYS
C1302 0.01
IC1301 TC7SH32FU
5 4 1 2 3
R1301 10k
C1301 0.01
5 4 1 2 3
IC1302 TC7S02FU
D1301 RB715F-X
JLIP_RX
D1302 ※
JLIP_TX
TO MAIN IF(1/2) CN107, CN109
Q1301 2SC4617/RS/-X
R1303 4.7k
R1302 ※
TO CPU
IF_RX
IF_TX
JLIP_L
GND

※ NO WEAR

y10157001a_reV0.1

4.4 CPU SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*
- *According to the parts which have no values are not used.*



01 MAIN (CPU)
IC1001
CSP
No Connect Pins of CSP Package are here.
IC1002 RS5C314
32kHz
X1002 NAX0267-001X
IC1003 X25330S8I-2.5
IC1004 TC7W08FU
IC1005 TC7W66FU
IC1006 TC7W53FU
IC1007 MB90097PFV139
IC1008 TC74VHC08FT
Q1001 DTC143EE
Q1002 2SC4617/QR/-X
Q1003 DTC124EE
D1001 DA221
24MHz
X1001 NAX0450-001X
TO MAIN IF(2/2) REG CON
TO MSD CPU, MAIN IF(1/2) CN109, MAIN IF(2/2) REG CON
TO MAIN IF(1/2) CN109
TO MAIN IF(1/2) CN113
TO MAIN IF(1/2) CN112
TO MAIN IF(1/2) CN108
TO ANA IN
TO MAIN IF(1/2) CN111
TO MSD CPU
TO MAIN IF(1/2) CN110
TO MAIN IF(1/2) CN105
TO MAIN IF(2/2) PS DRIV
TO DSP
TO MAIN IF(2/2) SHUTTER MDA
TO DSP, MAIN IF(1/2) CN105
TO ANA IN, DSP
TO OP DRIVE
TO TG/VDR
TO MAIN IF(1/2) CN107, MAIN IF(2/2) JLIP IF, MSD CPU
TO V OUT
TO MAIN IF(2/2) JLIP IF
TO CDS/AD
TO MAIN IF(1/2) CN109
TO MAIN IF(1/2) CN107
TO MAIN IF(1/2) S1002

※ NO WEAR

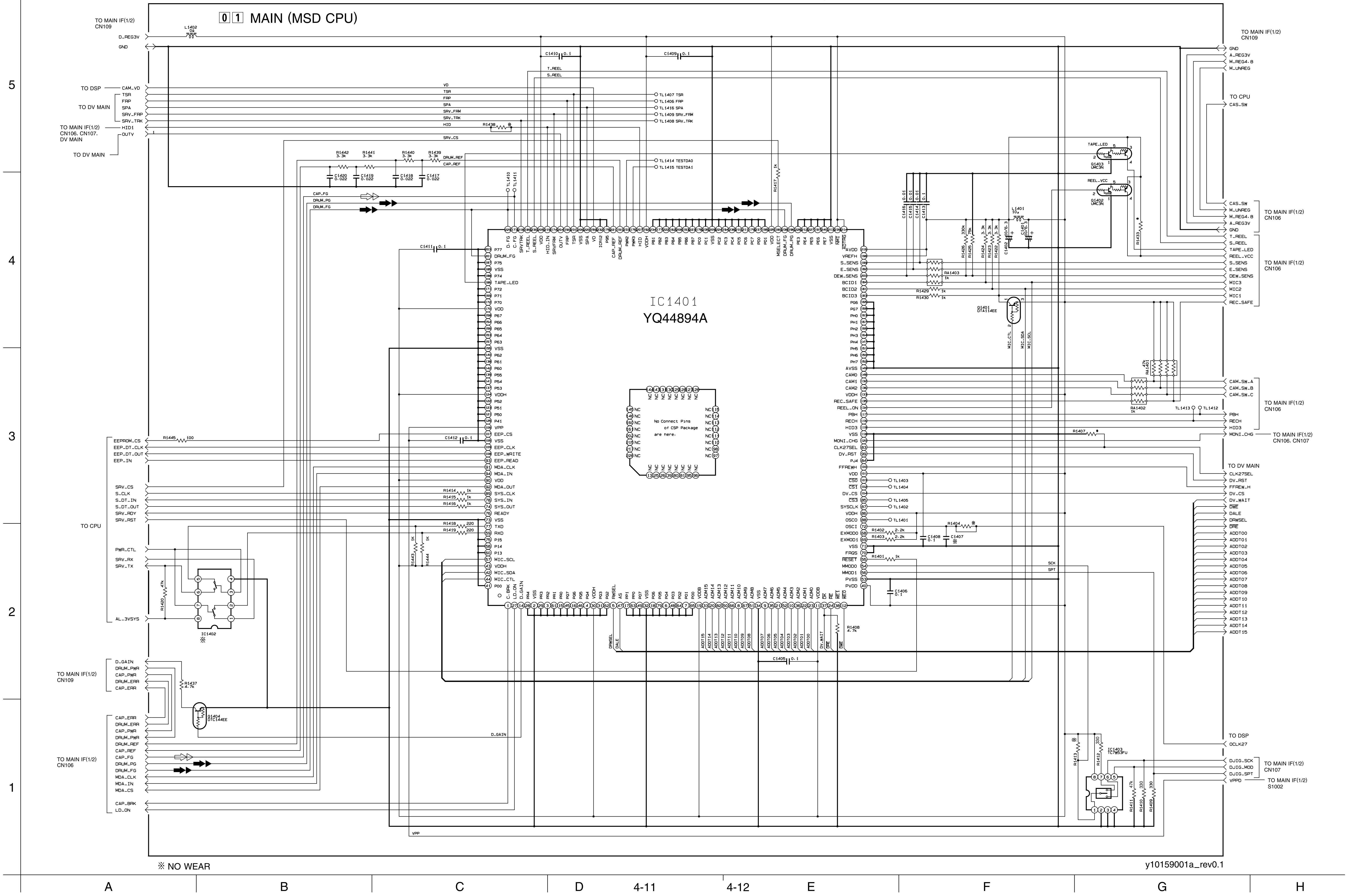
y10158001a_rev0.1

EXCHANGE PARTS LIST

MODEL / SYMBOL	IC1001	L1004	C1023	C1024	R1057-R1059	R1060-R1062	R1063-R1065	R1066-R1069
GR-DV1800EG/EK	YQ44895A	39μ	12p	33p	750	1k	0	※
GR-DV2000EG/EK	YQ44893A	※	※	※	※	※	※	0

4.5 MSD CPU SCHEMATIC DIAGRAM

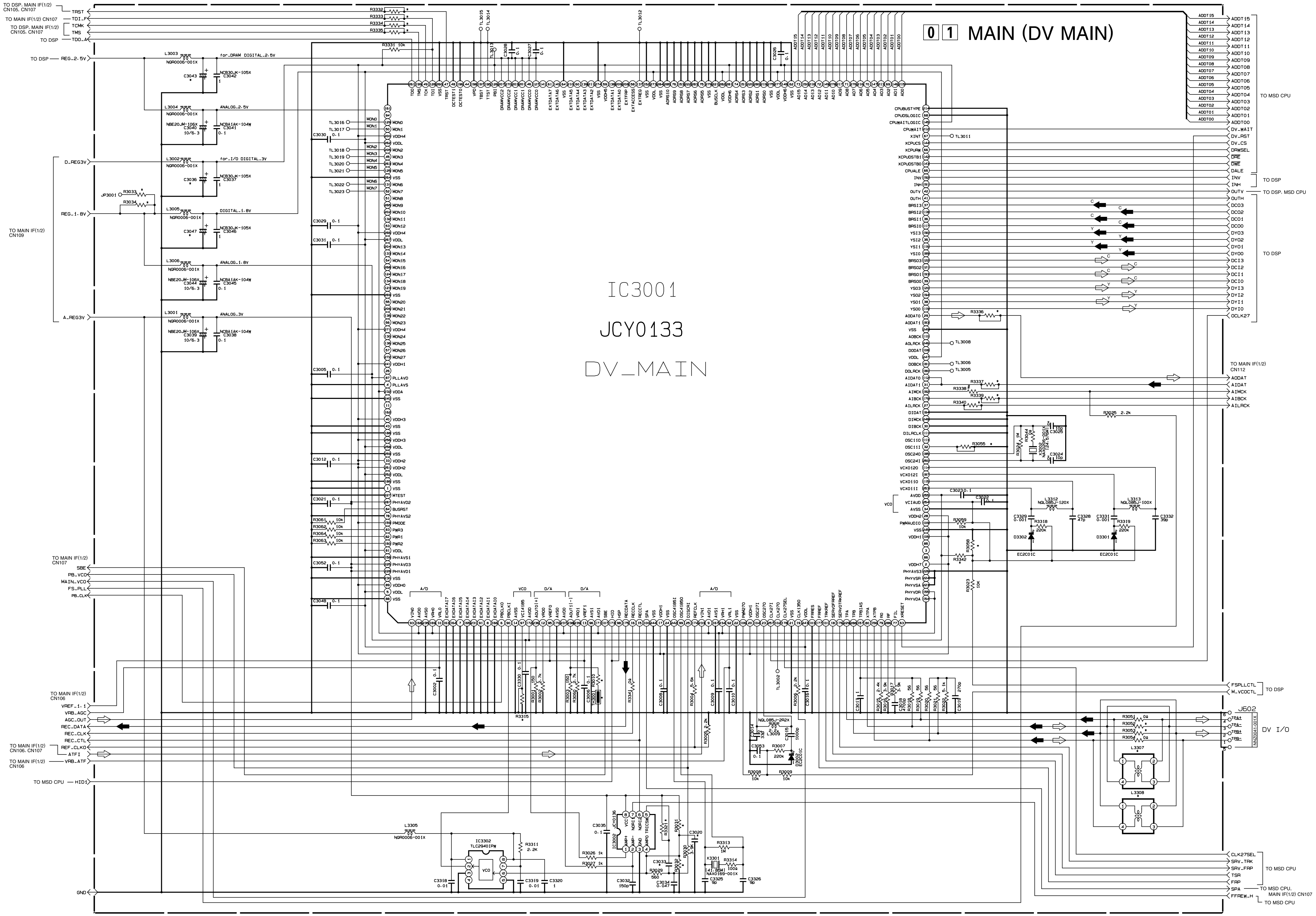
NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*
- *According to the parts which have no values are not used.*



01 MAIN (MSD CPU)
IC1401
YQ44894A
TO MAIN IF(1/2) CN109
D_REG3V
GND
TO DSP
CAM_VD
TO DV MAIN
TSR
FRP
SPA
SRV_FRM
SRV_TRK
TO MAIN IF(1/2) CN106, CN107, DV MAIN
HID1
OUTV
TO DV MAIN
EEPROM_CS
EEP_DT_CLK
EEP_DT_OUT
EEP_IN
TO CPU
SRV_CS
S_CLK
S_DT_IN
S_DT_OUT
SRV_RDY
SRV_RST
PWR_CTL
SRV_RX
SRV_TX
AL_3VSYS
IC1402
TO MAIN IF(1/2) CN109
D_GAIN
DRUM_PWR
CAP_PWR
DRUM_ERR
CAP_ERR
Q1404 DTC144EE
TO MAIN IF(1/2) CN106
CAP_ERR
DRUM_ERR
CAP_PWR
DRUM_PWR
DRUM_REF
CAP_REF
CAP_FG
DRUM_PG
DRUM_FG
MDA_CLK
MDA_IN
MDA_CS
CAP_BRK
LD_ON
No Connect Pins of CSP Package are here.
TO MAIN IF(1/2) CN109
GND
A_REG3V
M_REG4.8
M_UNREG
TO CPU
CAS_SW
Q1403 UMC3N
Q1402 UMC3N
TAPE_LED
REEL_VCC
TO MAIN IF(1/2) CN106
CAS_SW
M_UNREG
M_REG4.8
A_REG3V
GND
T_REEL
S_REEL
TAPE_LED
REEL_VCC
S_SENS
E_SENS
DEW_SENS
MIC3
MIC2
MIC1
REC_SAFE
Q1401 DTA114EE
CAM_SW_A
CAM_SW_B
CAM_SW_C
PBH
RECH
HID3
MONI_CHG
TO MAIN IF(1/2) CN106, CN107
TO DV MAIN
CLK27SEL
DV_RST
FFREW_H
DV_CS
DV_WAIT
DWE
DALE
DRWSEL
DRE
ADDT00 – ADDT15
TO DSP
OCLK27
IC1403 TC7W53FU
TO MAIN IF(1/2) CN107
DJIG_SCK
DJIG_MOD
DJIG_SPT
TO MAIN IF(1/2) S1002
VPPD
※ NO WEAR
y10159001a_rev0.1
1 2 3 4 5
A B C D E F G H

4.6 DV MAIN SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*
- *According to the parts which have no values are not used.*


01 MAIN (DV MAIN)
IC3001
JCY0133
DV_MAIN
TO DSP, MAIN IF(1/2) CN105, CN107
TO MAIN IF(1/2) CN107
TO DSP
TRST
TDI_F
TCMK
TMS
TDO_A
REG_2.5V
D_REG3V
REG_1.8V
A_REG3V
TO MAIN IF(1/2) CN109
L3003
L3004
L3002
L3005
L3006
L3001
NQR0006-001X
for_DRAM DIGITAL_2.5V
ANALOG_2.5V
for_I/O DIGITAL_3V
DIGITAL_1.8V
ANALOG_1.8V
ANALOG_3V
JP3001
R3033
R3034
TO MAIN IF(1/2) CN107
SBE
PB_VCO
MAIN_VCO
FS_PLL
PB_CLK
TO MAIN IF(1/2) CN106
VREF_1.1
VRB_AGC
AGC_OUT
REC_DATA
REC_CLK
REC_CTL
TO MAIN IF(1/2) CN106, CN107
REF_CLKO
ATFI
TO MAIN IF(1/2) CN106
VRB_ATF
TO MSD CPU
HID1
GND
ADDT15
ADDT14
ADDT13
ADDT12
ADDT11
ADDT10
ADDT09
ADDT08
ADDT07
ADDT06
ADDT05
ADDT04
ADDT03
ADDT02
ADDT01
ADDT00
TO MSD CPU
DV_WAIT
DV_RST
DV_CS
DRWSEL
DRE
DWE
DALE
INV
INH
TO DSP
OUTV
OUTH
TO DSP, MSD CPU
DCO3
DCO2
DCO1
DCO0
DYO3
DYO2
DYO1
DYO0
DCI3
DCI2
DCI1
DCI0
DYI3
DYI2
DYI1
DYI0
OCLK27
TO DSP
TO MAIN IF(1/2) CN112
AODAT
AIDAT
AIMCK
AIBCK
AILRCK
FSPLLCTL
M_VCOCTL
TO DSP
J502
DV I/O
TPA+
TPA-
TPB+
TPB-
L3307
L3308
CLK27SEL
SRV_TRK
SRV_FRP
TSR
FRP
SPA
FFREW_H
TO MSD CPU
TO MSD CPU, MAIN IF(1/2) CN107
TO MSD CPU
IC3302
TLC2940IPW
VCO
L3305
IC3002
X3301
D3301
D3302
EC2C01C
L3312
L3313
R3336
R3337
R3338
R3339
R3340
R3025 2.2k
R3055
R3058
R3023 10K
A/D
VCO
D/A
A/D
5
4
3
2
1

* NO WEAR   # EXCHANGE PARTS LIST

	DOMESTIC	US	PAL
R3338	22Ω	58Ω	22Ω

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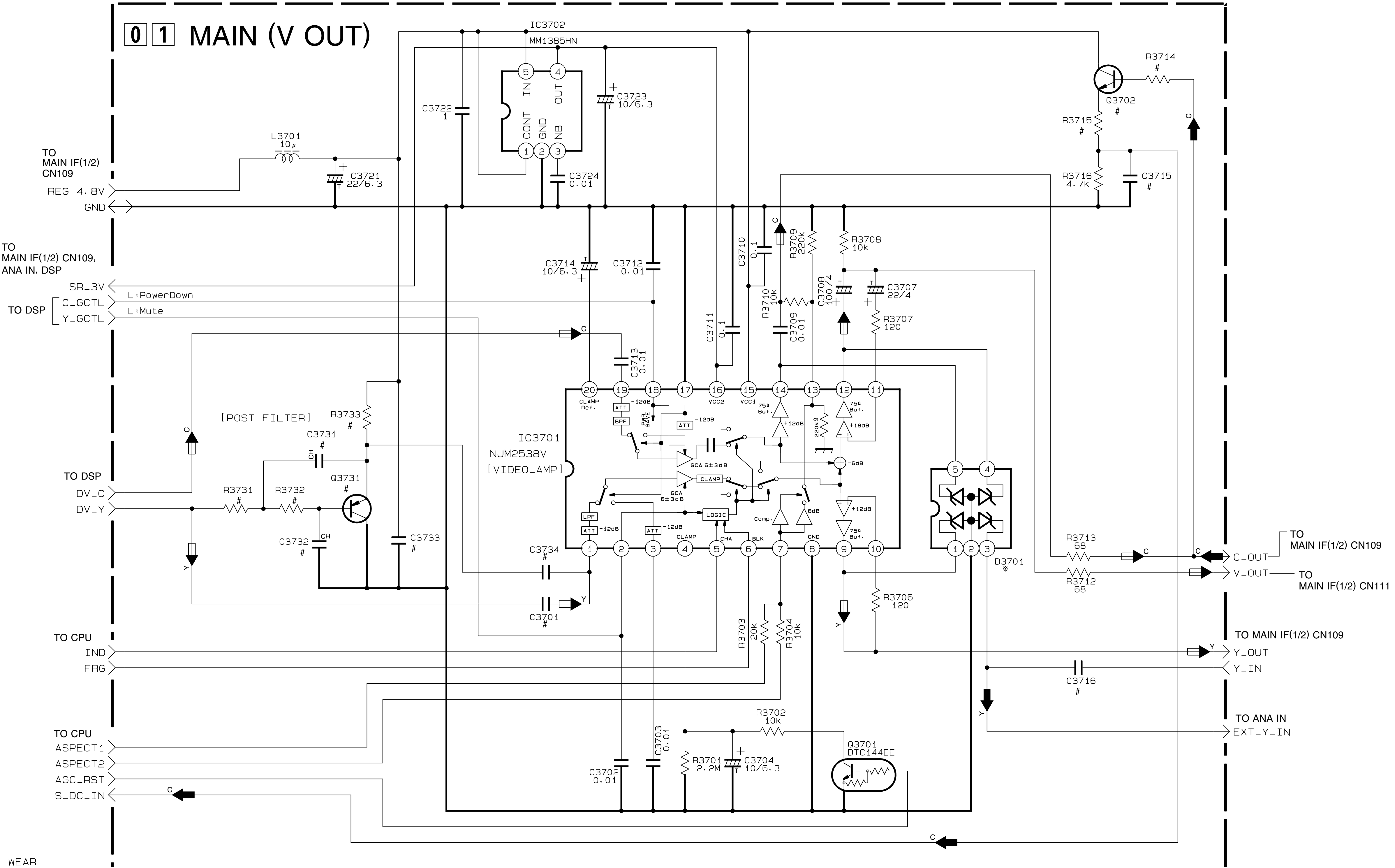
4.7 V OUT SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*
- *According to the parts which have no values are not used.*


0 1 MAIN (V OUT)
IC3702
MM1385HN
5 IN
4 OUT
1 CONT
2 GND
3 NB
C3722 1
C3723 10/6.3
C3724 0.01
L3701 10μ
C3721 22/6.3
TO MAIN IF(1/2) CN109
REG_4.8V
GND
TO MAIN IF(1/2) CN109, ANA IN, DSP
SR_3V
TO DSP
C_GCTL
Y_GCTL
L:PowerDown
L:Mute
C3714 10/6.3
C3712 0.01
C3710 0.1
C3711 0.1
C3713 0.01
R3709 220k
R3710 10k
C3709 0.01
C3708 100/4
R3708 10k
C3707 22/4
R3707 120
IC3701
NJM2538V
[VIDEO_AMP]
CLAMP Ref.
ATT
BPF
PWR SAVE
-12dB
GCA 6±3dB
CLAMP
LPF
LOGIC
Comp.
VCC2
VCC1
75Ω Buf.
+12dB
+18dB
-6dB
6dB
CHA
BLK
GND
[POST FILTER]
R3733 #
C3731 #
Q3731 #
TO DSP
DV_C
DV_Y
R3731 #
R3732 #
C3732 #
C3733 #
C3734 #
C3701 #
TO CPU
IND
FRG
TO CPU
ASPECT1
ASPECT2
AGC_RST
S_DC_IN
R3703 20k
R3704 10k
C3702 0.01
C3703 0.01
R3701 2.2M
C3704 10/6.3
R3702 10k
Q3701 DTC144EE
R3706 120
D3701 ※
R3714 #
Q3702 #
R3715 #
R3716 4.7k
C3715 #
R3713 68
R3712 68
C3716 #
TO MAIN IF(1/2) CN109
C_OUT
V_OUT
TO MAIN IF(1/2) CN111
TO MAIN IF(1/2) CN109
Y_OUT
Y_IN
TO ANA IN
EXT_Y_IN
C
Y

y30106001a_rev1

※ NO WEAR
EXCHANGE PARTS

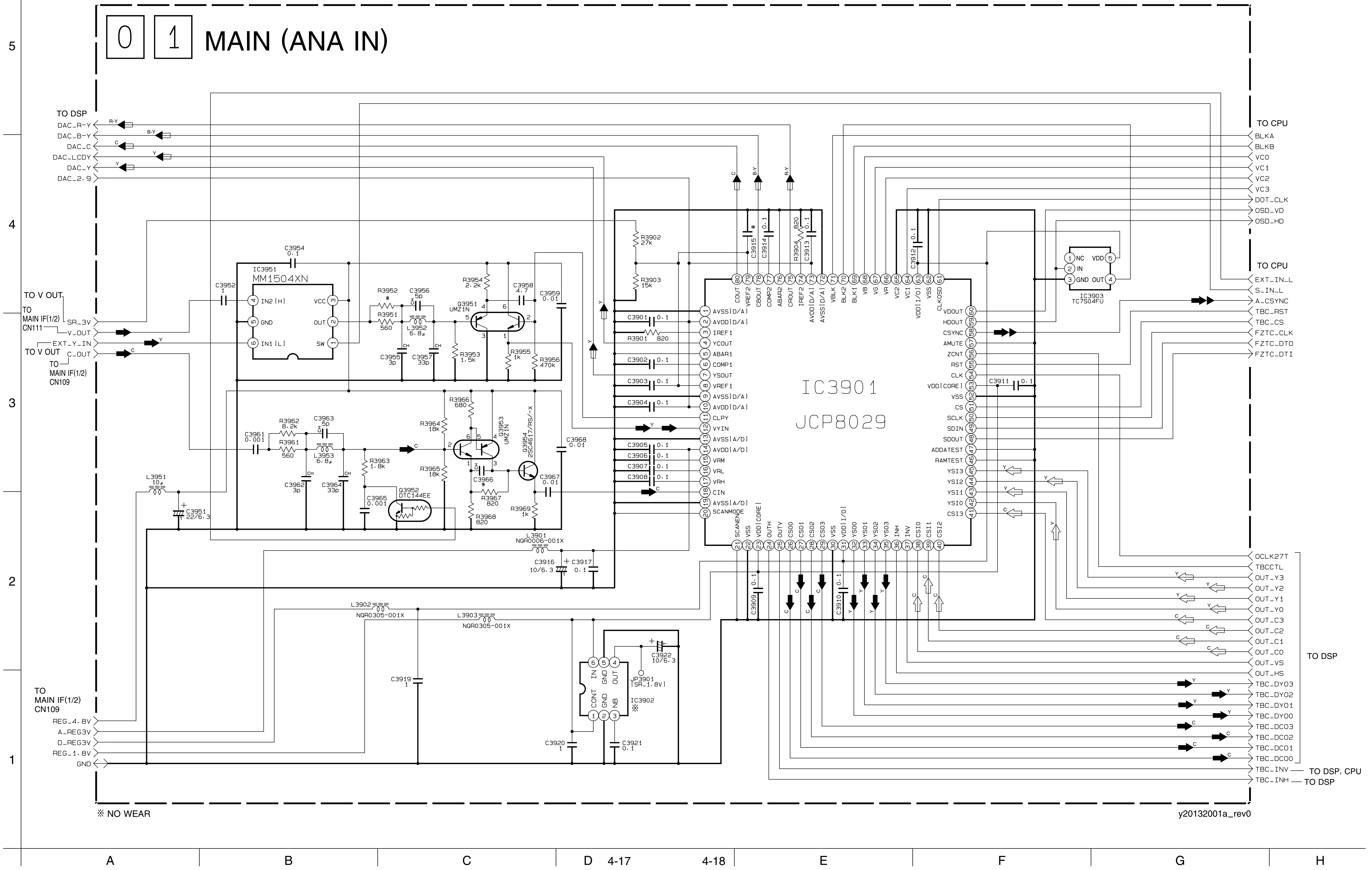
○ : GR-DV2000EG/EK
× : GR-DV1800EG/EK

EXCHANGE PARTS LIST

	ANALOG_IN			ANALOG_IN	
	○	×		○	×
Q3702	2SC4617/RS/-X	※	C3701	0.1	※
Q3731	※	2SA1774/RS/-X	C3715	0.01	※
R3714	100	※	C3716	1	※
R3715	4.7k	※	C3731	※	82p
R3731	※	560	C3732	※	15p
R3732	※	560	C3733	※	0.01
R3733	※	2.2k	C3734	※	0.01

4.8 ANA IN SCHEMATIC DIAGRAM [GR-DV2000EG/EK]

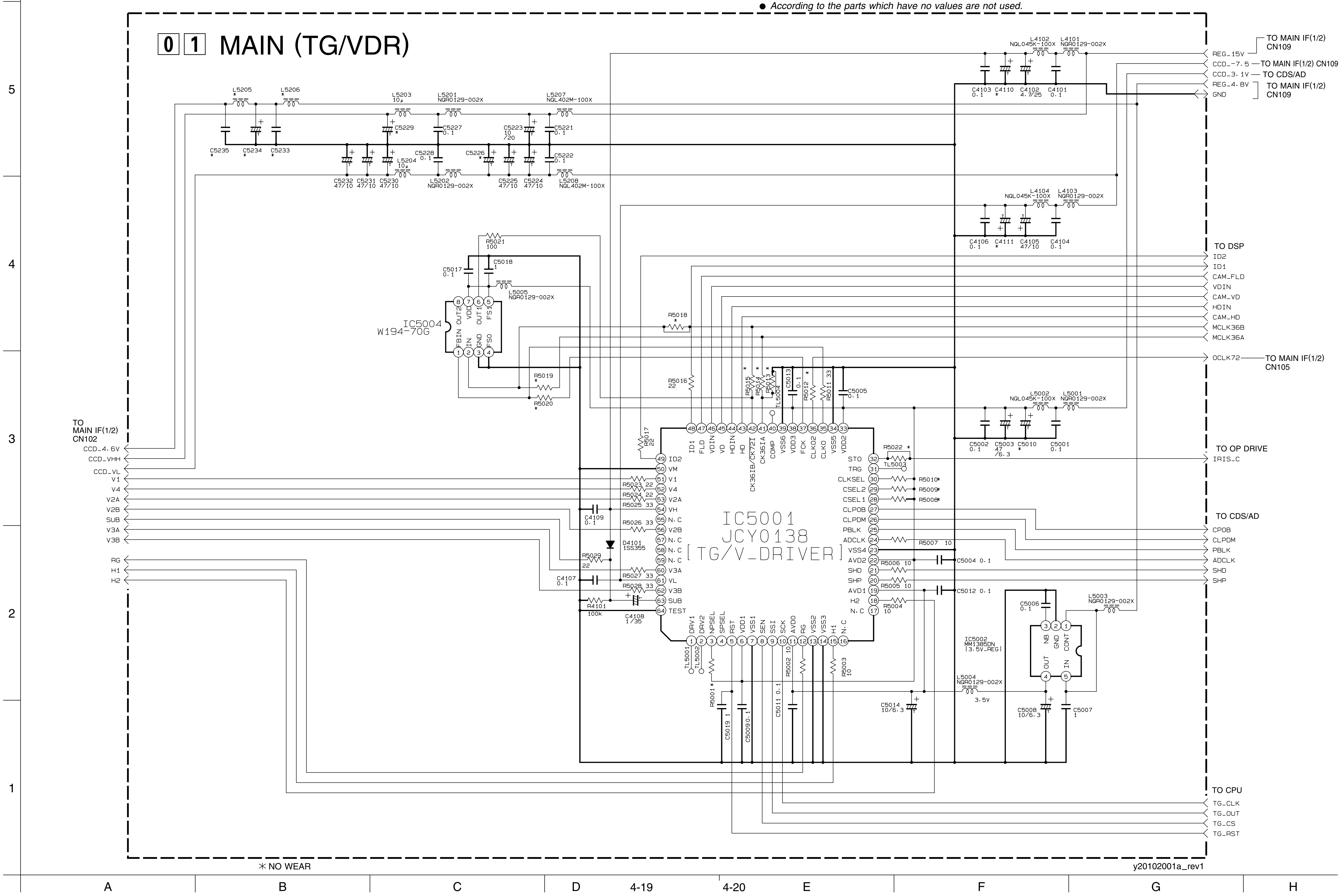
NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*
- *According to the parts which have no values are not used.*



0 1 MAIN (ANA IN)
TO DSP
DAC_R-Y
DAC_B-Y
DAC_C
DAC_LCDY
DAC_Y
DAC_2.9
TO V OUT
TO MAIN IF(1/2) CN111
SR_3V
V_OUT
EXT_Y_IN
TO V OUT
C_OUT
TO MAIN IF(1/2) CN109
IC3951 MM1504XN
IN2 [H]
GND
IN1 [L]
VCC
OUT
SW
C3954 0.1
C3952 1
R3952 ※
R3951 560
C3956 5p
L3952 6.8μ
C3955 3p
C3957 33p
R3954 2.2k
Q3951 UMZ1N
R3953 1.5k
C3958 4.7
R3955 1k
R3956 470k
C3959 0.01
R3902 27k
R3903 15k
R3962 8.2k
R3961 560
C3961 0.001
C3963 5p
L3953 6.8μ
C3962 3p
C3964 33p
R3963 1.8k
C3965 0.001
Q3952 DTC144EE
R3966 680
R3964 18k
R3965 18k
Q3953 UMZ1N
C3966 ※
R3967 820
R3968 820
Q3954 2SC4617/RS/-X
C3967 0.01
C3968 0.01
R3969 1k
L3951 10μ
C3951 22/6.3
L3901 NQR0006-001X
C3916 10/6.3
C3917 0.1
L3902 NQR0305-001X
L3903 NQR0305-001X
C3919 1
C3920 1
C3921 0.1
C3922 10/6.3
JP3901 [SR_1.8V]
IC3902 ※
CONT
GND
NB
IN
GND
OUT
TO MAIN IF(1/2) CN109
REG_4.8V
A_REG3V
D_REG3V
REG_1.8V
GND
IC3901 JCP8029
C3901 0.1
R3901 820
C3902 0.1
C3903 0.1
C3904 0.1
C3905 0.1
C3906 0.1
C3907 0.1
C3908 0.1
C3909 0.1
C3910 0.1
C3911 0.1
C3912 0.1
C3913 0.1
C3914 0.1
C3915 ※
R3904 820
AVSS[D/A]
AVDD[D/A]
IREF1
YCOUT
ABAR1
COMP1
YSOUT
VREF1
AVSS[D/A]
AVDD[D/A]
CLPY
VYIN
AVSS[A/D]
AVDD[A/D]
VRM
VRL
VRH
CIN
AVSS[A/D]
SCANMODE
SCANEN
VSS
VDD[CORE]
OUTH
OUTV
CS00
CS01
CS02
CS03
VSS
VDD[I/O]
YS00
YS01
YS02
YS03
INH
INV
CSI0
CSI1
CSI2
CSI3
YSI0
YSI1
YSI2
YSI3
RAMTEST
ADDATEST
SDOUT
SDIN
SCLK
CS
VSS
VDD[CORE]
CLK
RST
ZCNT
AMUTE
CSYNC
HDOUT
VDOUT
CLKOSD
VSS
VDD[I/O]
VC1
VC2
VR
VG
VB
BLK1
BLK2
VBLK
AVSS[D/A]
AVDD[D/A]
IREF2
CROUT
ABAR2
COMP2
CBOUT
VREF2
COUT
IC3903 TC7S04FU
NC
IN
GND
OUT
VDD
TO CPU
BLKA
BLKB
VC0
VC1
VC2
VC3
DOT_CLK
OSD_VD
OSD_HD
TO CPU
EXT_IN_L
S_IN_L
A_CSYNC
TBC_RST
TBC_CS
FZTC_CLK
FZTC_DTO
FZTC_DTI
OCLK27T
TBCCTL
OUT_Y3
OUT_Y2
OUT_Y1
OUT_Y0
OUT_C3
OUT_C2
OUT_C1
OUT_C0
OUT_VS
OUT_HS
TO DSP
TBC_DYO3
TBC_DYO2
TBC_DYO1
TBC_DYO0
TBC_DCO3
TBC_DCO2
TBC_DCO1
TBC_DCO0
TBC_INV
TO DSP, CPU
TBC_INH
TO DSP
※ NO WEAR
y20132001a_rev0
1
2
3
4
5
A
B
C
D
E
F
G
H

4.9 TG/VDR SCHEMATIC DIAGRAM

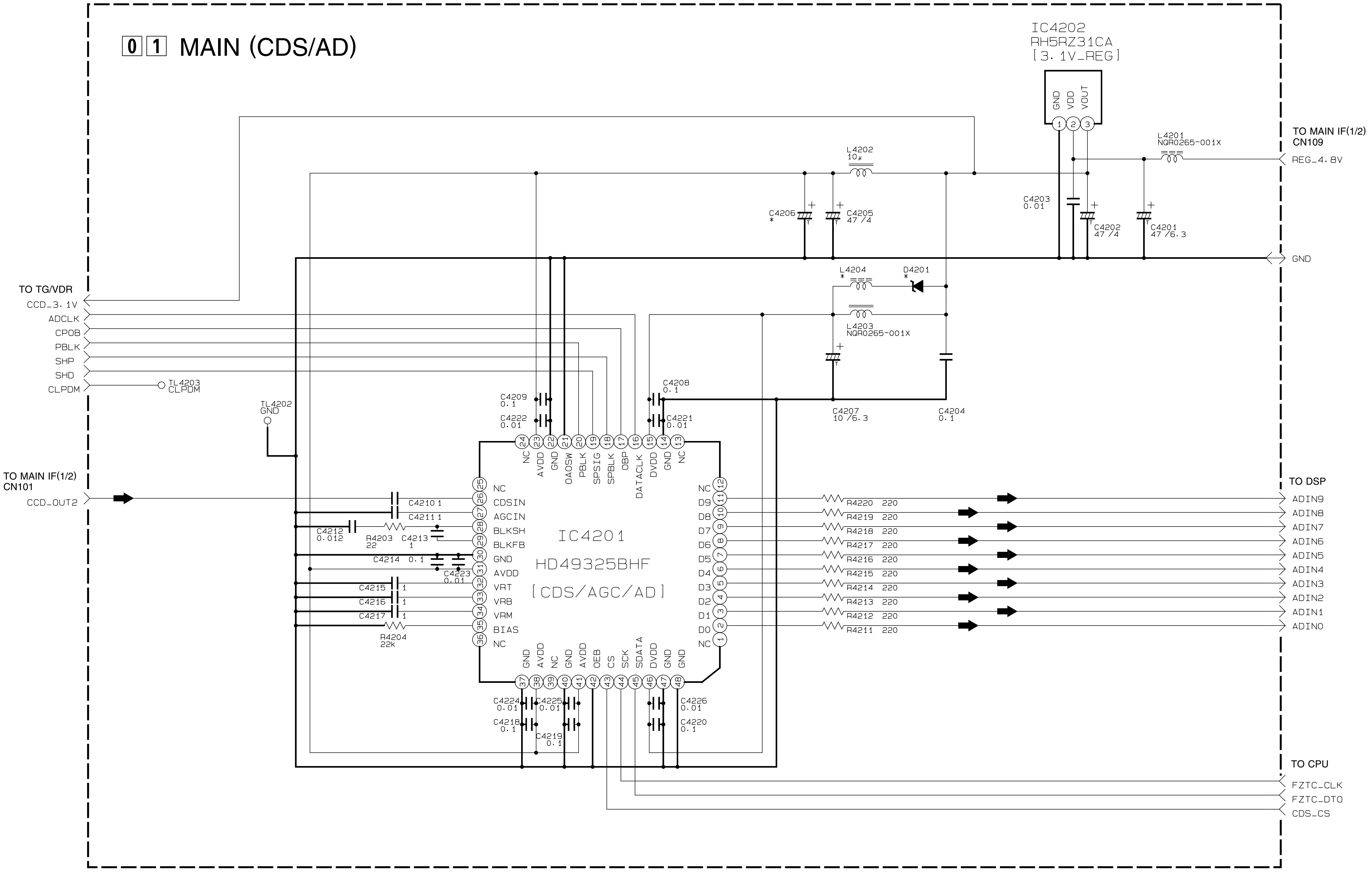
NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*
- *According to the parts which have no values are not used.*



01 MAIN (TG/VDR)
REG_15V
TO MAIN IF(1/2) CN109
CCD_-7.5 — TO MAIN IF(1/2) CN109
CCD_3.1V — TO CDS/AD
REG_4.8V
GND
TO MAIN IF(1/2) CN109
L4102 NQL045K-100X
L4101 NQR0129-002X
C4103 0.1
C4110 *
C4102 4.7/25
C4101 0.1
L5205 *
L5206 *
L5203 10µ
L5201 NQR0129-002X
L5207 NQL402M-100X
C5229 *
C5227 0.1
C5223 10 /20
C5221 0.1
C5235 *
C5234 *
C5233 *
C5228 0.1
C5226 *
C5222 0.1
L5204 10µ
C5232 47/10
C5231 47/10
C5230 47/10
L5202 NQR0129-002X
C5225 47/10
C5224 47/10
L5208 NQL402M-100X
L4104 NQL045K-100X
L4103 NQR0129-002X
C4106 0.1
C4111 *
C4105 47/10
C4104 0.1
R5021 100
C5017 0.1
C5018 1
L5005 NQR0129-002X
IC5004 W194-70G
OUT2 VDD OUT1 FS1
FBIN IN GND FS0
R5019 *
R5020 *
R5018 *
R5016 22
R5015 *
R5014 *
R5013 *
TL5004
C5013 0.1
R5012 *
R5011 33
C5005 0.1
L5002 NQL045K-100X
L5001 NQR0129-002X
C5002 0.1
C5003 47 /6.3
C5010 *
C5001 0.1
TO DSP
ID2
ID1
CAM_FLD
VDIN
CAM_VD
HDIN
CAM_HD
MCLK36B
MCLK36A
OCLK72 — TO MAIN IF(1/2) CN105
TO OP DRIVE
IRIS_C
TO CDS/AD
CPOB
CLPDM
PBLK
ADCLK
SHD
SHP
TO MAIN IF(1/2) CN102
CCD_4.6V
CCD_VHH
CCD_VL
V1
V4
V2A
V2B
SUB
V3A
V3B
RG
H1
H2
R5017 22
IC5001 JCY0138 [TG/V_DRIVER]
48 ID1, 47 FLD, 46 VDIN, 45 VD, 44 HDIN, 43 HD, 42 CK36IB/CK72I, 41 CK36IA, 40 COMP, 39 VSS6, 38 VDD3, 37 FCK, 36 CLK02, 35 CLK0, 34 VSS5, 33 VDD2
49 ID2, 50 VM, 51 V1, 52 V4, 53 V2A, 54 VH, 55 N.C, 56 V2B, 57 N.C, 58 N.C, 59 N.C, 60 V3A, 61 VL, 62 V3B, 63 SUB, 64 TEST
32 STO, 31 TRG, 30 CLKSEL, 29 CSEL2, 28 CSEL1, 27 CLPOB, 26 CLPDM, 25 PBLK, 24 ADCLK, 23 VSS4, 22 AVD2, 21 SHD, 20 SHP, 19 AVD1, 18 H2, 17 N.C
1 DRV1, 2 DRV2, 3 NPSEL, 4 SPSEL, 5 RST, 6 VDD1, 7 VSS1, 8 SEN, 9 SSI, 10 SCK, 11 AVDD, 12 RG, 13 VSS2, 14 VSS3, 15 H1, 16 N.C
R5023 22
R5024 22
R5025 33
R5026 33
R5027 33
R5028 33
C4109 0.1
D4101 1SS355
R5029 22
C4107 0.1
R4101 100k
C4108 1/35
R5022 *
TL5003
R5010*
R5009*
R5008*
R5007 10
C5004 0.1
R5006 10
R5005 10
C5012 0.1
R5004 10
TL5001
TL5002
R5001*
R5002 10
R5003 10
C5019 1
C5009 0.1
C5011 0.1
C5014 10/6.3
L5004 NQR0129-002X
3.5V
IC5002 MM1385DN (3.5V_REG)
C5006 0.1
NB GND CONT
OUT IN
L5003 NQR0129-002X
C5008 10/6.3
C5007 1
TO CPU
TG_CLK
TG_OUT
TG_CS
TG_RST
✳ NO WEAR
y20102001a_rev1
1 2 3 4 5
A B C D E F G H

4.10 CDS/AD SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*
- *According to the parts which have no values are not used.*

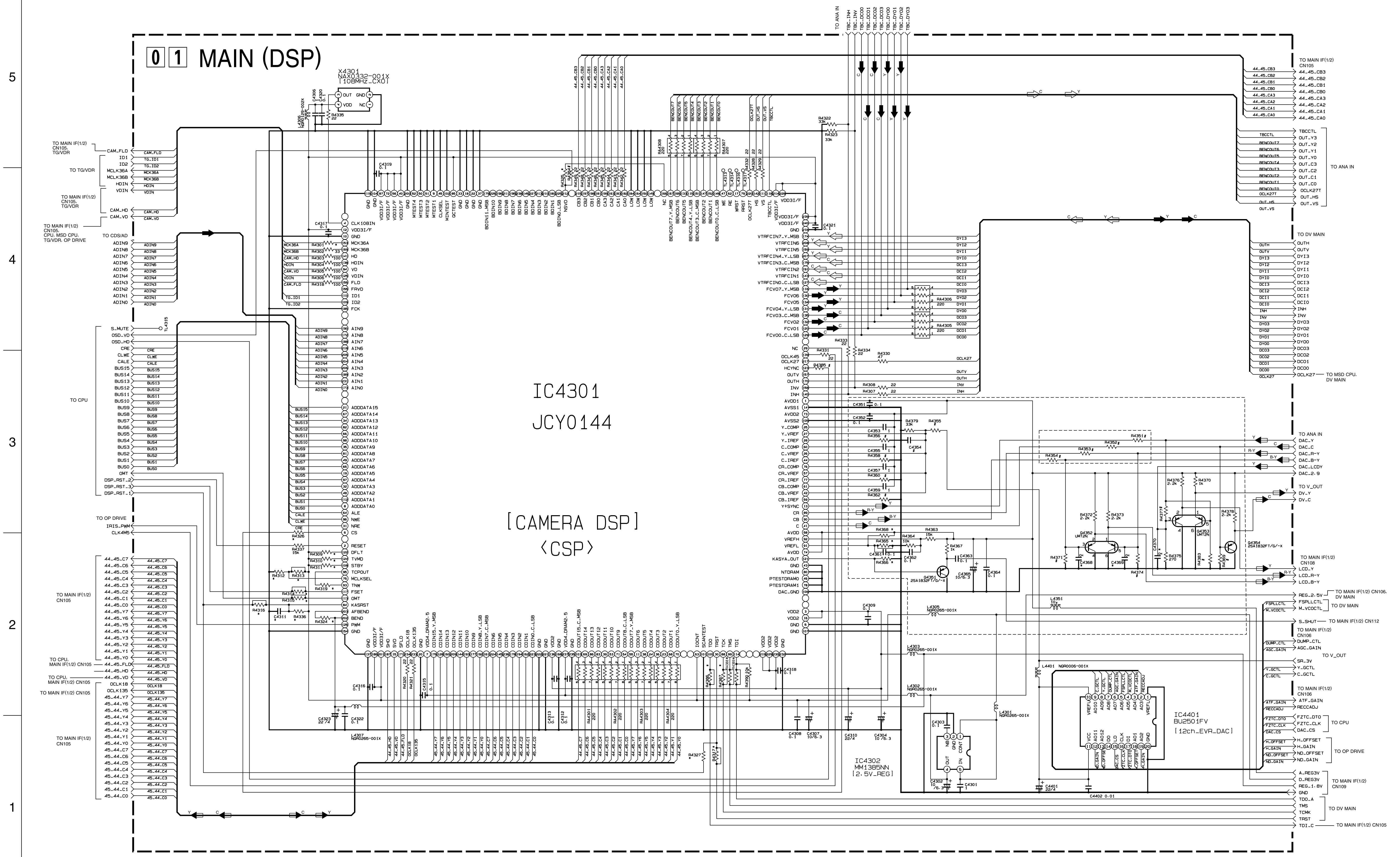


0 1 MAIN (CDS/AD)
IC4202
RH5RZ31CA
[3.1V_REG]
GND
VDD
VOUT
TO MAIN IF(1/2)
CN109
REG_4.8V
GND
L4201
NQR0265-001X
L4202
10μ
C4206
*
C4205
47/4
C4203
0.01
C4202
47/4
C4201
47/6.3
L4204
*
D4201
*
L4203
NQR0265-001X
C4207
10/6.3
C4204
0.1
C4208
0.1
C4221
0.01
C4209
0.1
C4222
0.01
TO TG/VDR
CCD_3.1V
ADCLK
CPOB
PBLK
SHP
SHD
CLPDM
TL4203
CLPDM
TL4202
GND
TO MAIN IF(1/2)
CN101
CCD_OUT2
IC4201
HD49325BHF
[CDS/AGC/AD]
NC
AVDD
GND
OAOSW
PBLK
SPSIG
SPBLK
OBP
DATACLK
DVDD
GND
NC
NC
CDSIN
AGCIN
BLKSH
BLKFB
GND
AVDD
VRT
VRB
VRM
BIAS
NC
NC
D9
D8
D7
D6
D5
D4
D3
D2
D1
D0
NC
GND
AVDD
NC
GND
AVDD
OEB
CS
SCK
SDATA
DVDD
GND
GND
C4210 1
C4211 1
C4212
0.012
R4203
22
C4213
1
C4214 0.1
C4223
0.01
C4215 1
C4216 1
C4217 1
R4204
22k
R4220 220
R4219 220
R4218 220
R4217 220
R4216 220
R4215 220
R4214 220
R4213 220
R4212 220
R4211 220
TO DSP
ADIN9
ADIN8
ADIN7
ADIN6
ADIN5
ADIN4
ADIN3
ADIN2
ADIN1
ADIN0
C4224
0.01
C4225
0.01
C4218
0.1
C4219
0.1
C4226
0.01
C4220
0.1
TO CPU
FZTC_CLK
FZTC_DTO
CDS_CS
y20104001a_rev1

＊NO WEAR

4.11 DSP SCHEMATIC DIAGRAM

NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
- When ordering parts, be sure to order according to the Part Number indicated in the Parts List.
- According to the parts which have no values are not used.



01 MAIN (DSP)
X4301
NAX0332-001X
[108MHz_CXO]
IC4301
JCY0144
[CAMERA DSP]
<CSP>
IC4302
MM1385NN
[2.5V_REG]
IC4401
BU2501FV
[12ch_EVR_DAC]
TO MAIN IF(1/2) CN105, TG/VDR
TO TG/VDR
TO CDS/AD
TO CPU
TO OP DRIVE
TO ANA IN
TO DV MAIN
TO MSD CPU, DV MAIN
TO V_OUT
TO MAIN IF(1/2) CN108
TO MAIN IF(1/2) CN106
TO MAIN IF(1/2) CN109
TO MAIN IF(1/2) CN112
5
4
3
2
1

∗ NO WEAR　# EXCAHNGE PARTS LIST

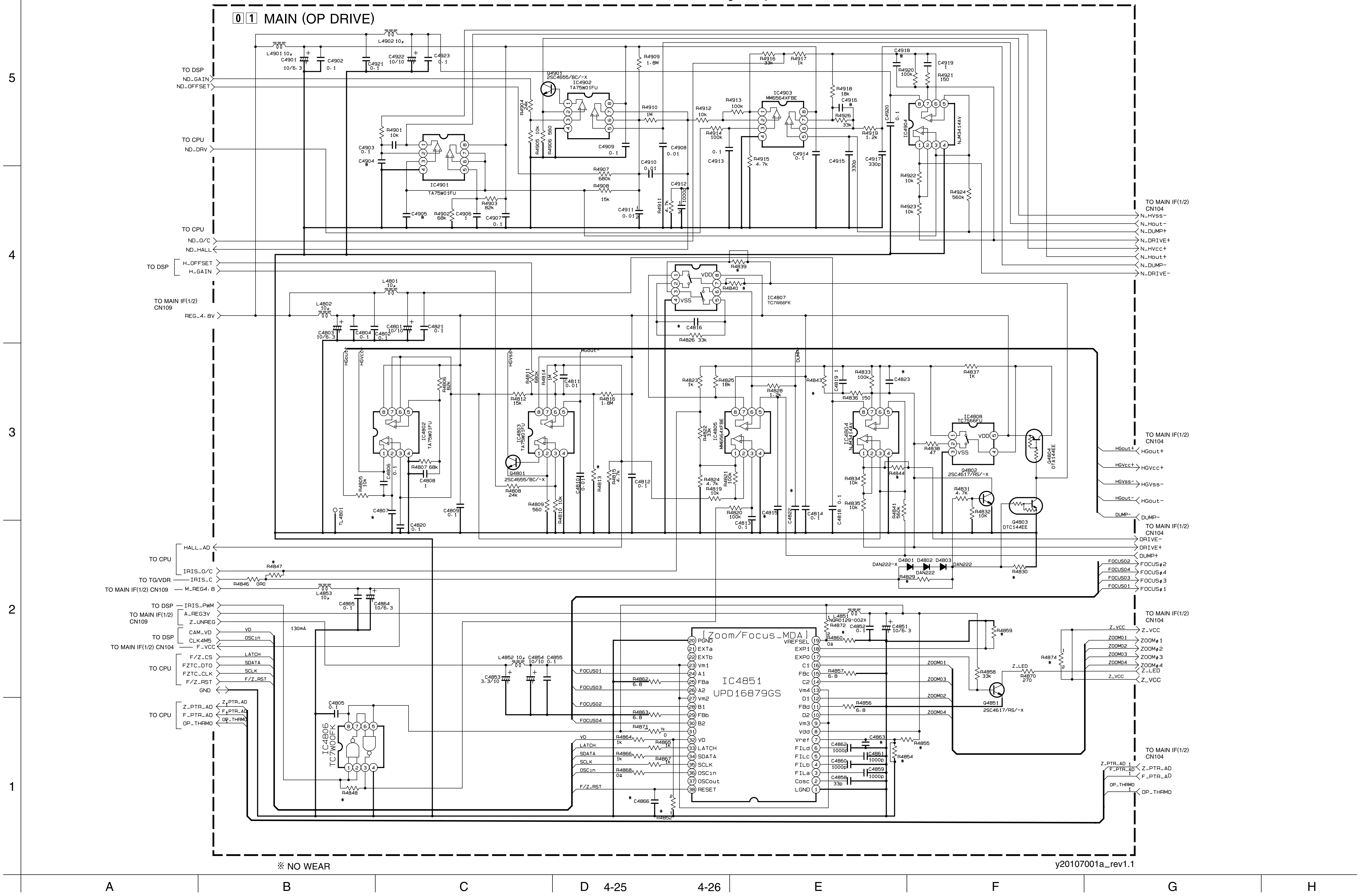
MODEL \ SYMBOL	R4351-R4354	R4355	R4356	R44358	R4360,R4362	R4369	R4371	R4374	R4377	R4383	R4384,R4385	C4354
GR-DV1800EG/EK	0	47k	33k	6.2k	16k	75	130	100	27	∗	0	0.1
GR-DV2000EG/EK	∗	∗	2.7k	2.7k	2.7k	200	200	200	∗	270	∗	∗

y10162001a_rev0.1

A　B　C　D　E　F　G　H

4.12 OP DRIVE SCHEMATIC DIAGRAM

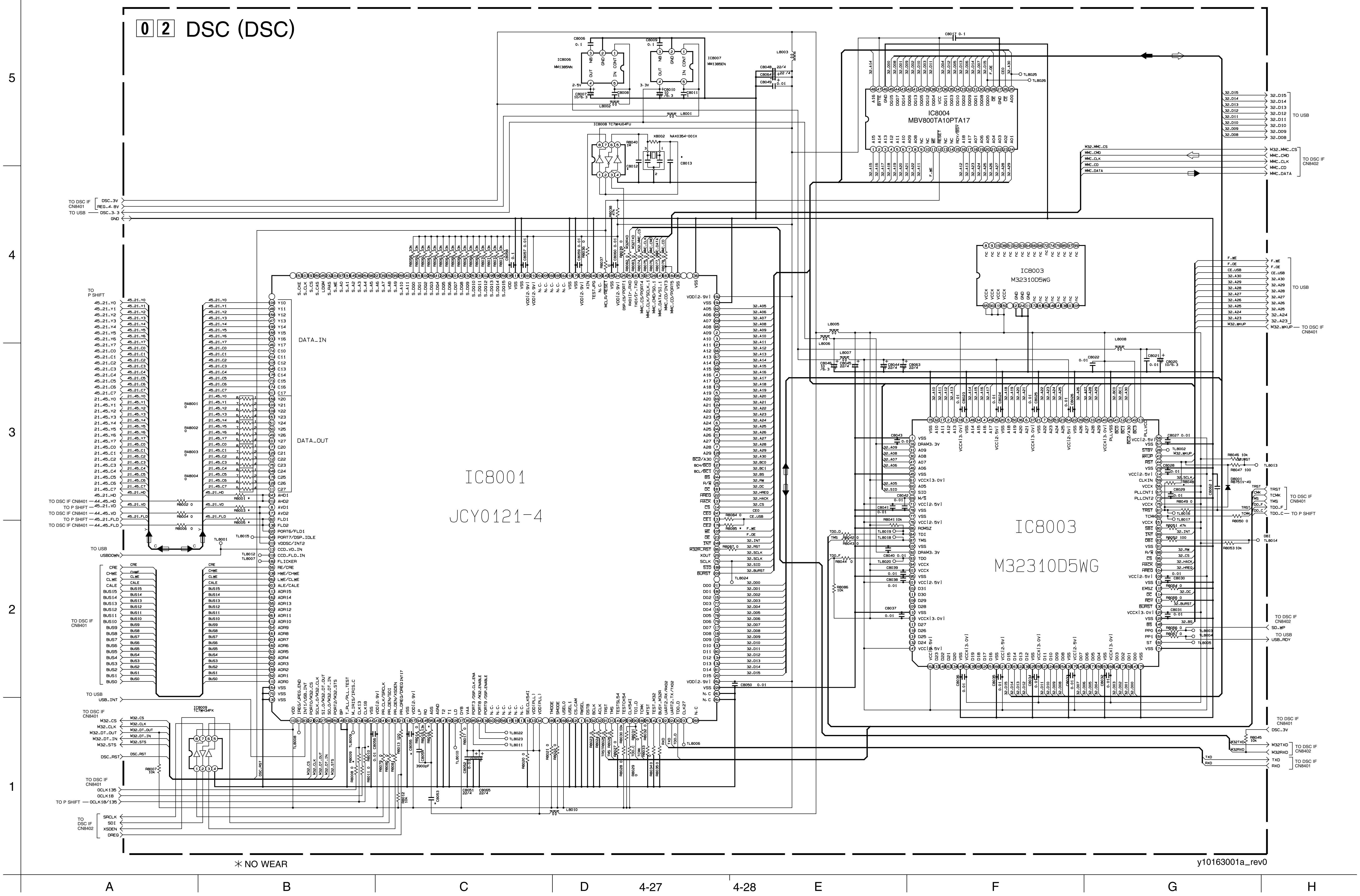
NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*
- *According to the parts which have no values are not used.*



01 MAIN (OP DRIVE)
TO DSP
ND_GAIN
ND_OFFSET
TO CPU
ND_DRV
TO CPU
ND_O/C
ND_HALL
TO DSP
H_OFFSET
H_GAIN
TO MAIN IF(1/2) CN109
REG_4.8V
TO CPU
HALL_AD
IRIS_O/C
TO TG/VDR
IRIS_C
TO MAIN IF(1/2) CN109
M_REG4.8
TO DSP
IRIS_PWM
TO MAIN IF(1/2) CN109
A_REG3V
Z_UNREG
TO DSP
CAM_VD
CLK4M5
TO MAIN IF(1/2) CN104
F_VCC
TO CPU
F/Z_CS
FZTC_DTO
FZTC_CLK
F/Z_RST
GND
TO CPU
Z_PTR_AD
F_PTR_AD
OP_THRMO
IC4901 TA75W01FU
IC4902 TA75W01FU
Q4901 2SC4655/BC/-X
IC4903 MM6564XFBE
IC4904 NJM3414AV
IC4807 TC7W66FK
IC4802 TA75W01FU
IC4803 TA75W01FU
Q4801 2SC4655/BC/-X
IC4805 MM6564XFBE
IC4804 NJM3414AV
IC4808 TC7S66FU
Q4802 2SC4617/RS/-X
Q4804 DTA144EE
Q4803 DTC144EE
D4801 D4802 D4803 DAN222
IC4806 TC7W00FK
IC4851 UPD16879GS
[Zoom/Focus_MDA]
Q4851 2SC4617/RS/-X
L4851 NQR0129-002X
130mA
TO MAIN IF(1/2) CN104
N_HVss-
N_Hout-
N_DUMP+
N_DRIVE+
N_HVcc+
N_Hout+
N_DUMP-
N_DRIVE-
TO MAIN IF(1/2) CN104
HGout+
HGVcc+
HGVss-
HGout-
DUMP-
TO MAIN IF(1/2) CN104
DRIVE-
DRIVE+
DUMP+
FOCUSφ2
FOCUSφ4
FOCUSφ3
FOCUSφ1
TO MAIN IF(1/2) CN104
Z_VCC
ZOOMφ1
ZOOMφ2
ZOOMφ3
ZOOMφ4
Z_LED
Z_VCC
TO MAIN IF(1/2) CN104
Z_PTR_AD
F_PTR_AD
OP_THRMO
※ NO WEAR
y20107001a_rev1.1
1
2
3
4
5
A
B
C
D
E
F
G
H

4.13 DSC SCHEMATIC DIAGRAM

NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
- When ordering parts, be sure to order according to the Part Number indicated in the Parts List.
- According to the parts which have no values are not used.



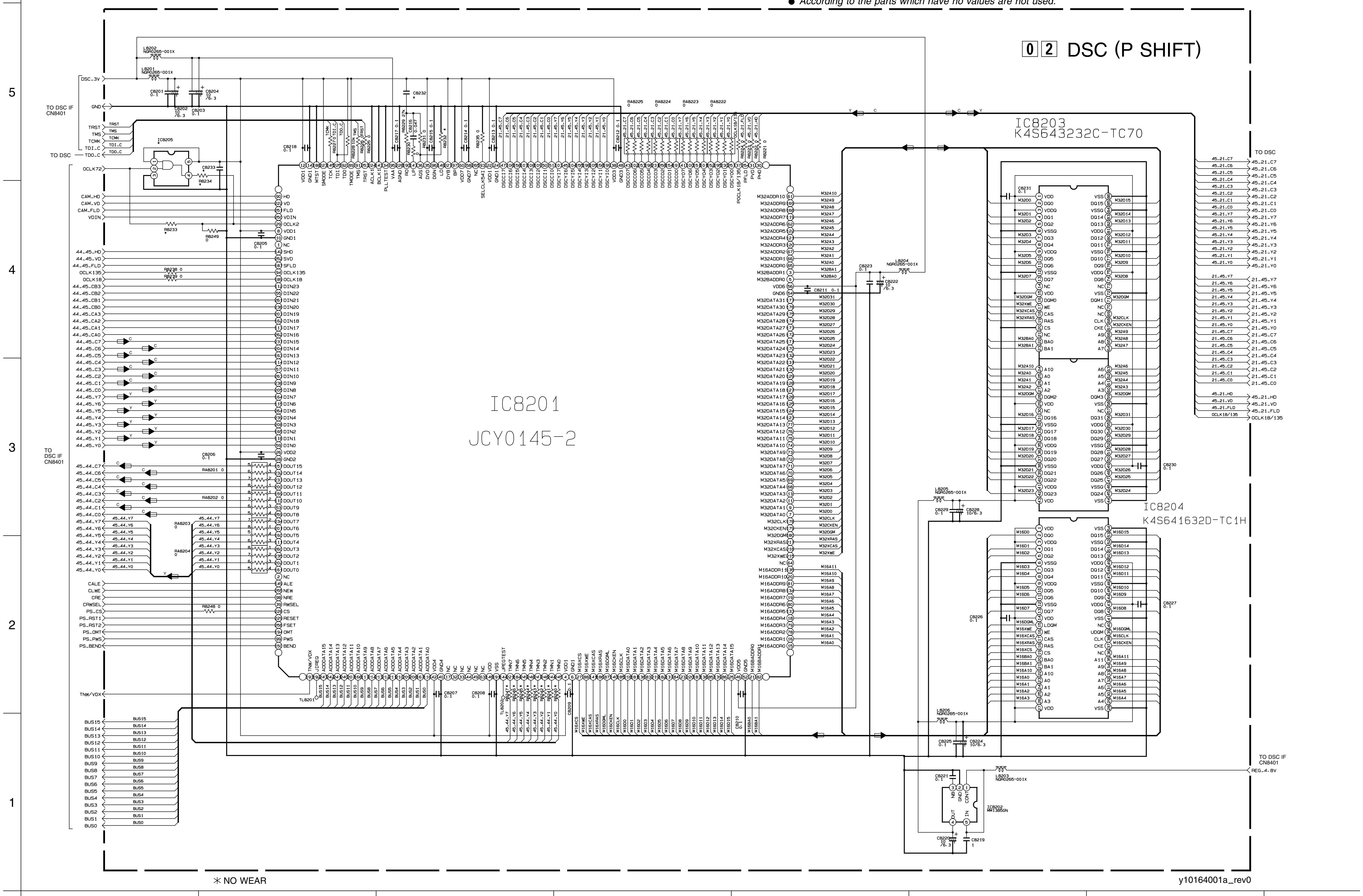
02 DSC (DSC)
IC8006 MM1385NN
IC8007 MM1385EN
IC8008 TC7WHU04FU
X8002 NAX0354-001X
IC8004 MBV800TA10PTA17
IC8003 M32310D5WG
IC8001 JCY0121-4
IC8003 M32310D5WG
IC8009 TC7WH34FK
DATA_IN
DATA_OUT
TO DSC IF CN8401
TO USB
TO P SHIFT
TO DSC IF CN8402
5
4
3
2
1
A
B
C
D
E
F
G
H

*NO WEAR

y10163001a_rev0

4.14 P SHIFT SCHEMATIC DIAGRAM

NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
- When ordering parts, be sure to order according to the Part Number indicated in the Parts List.
- According to the parts which have no values are not used.



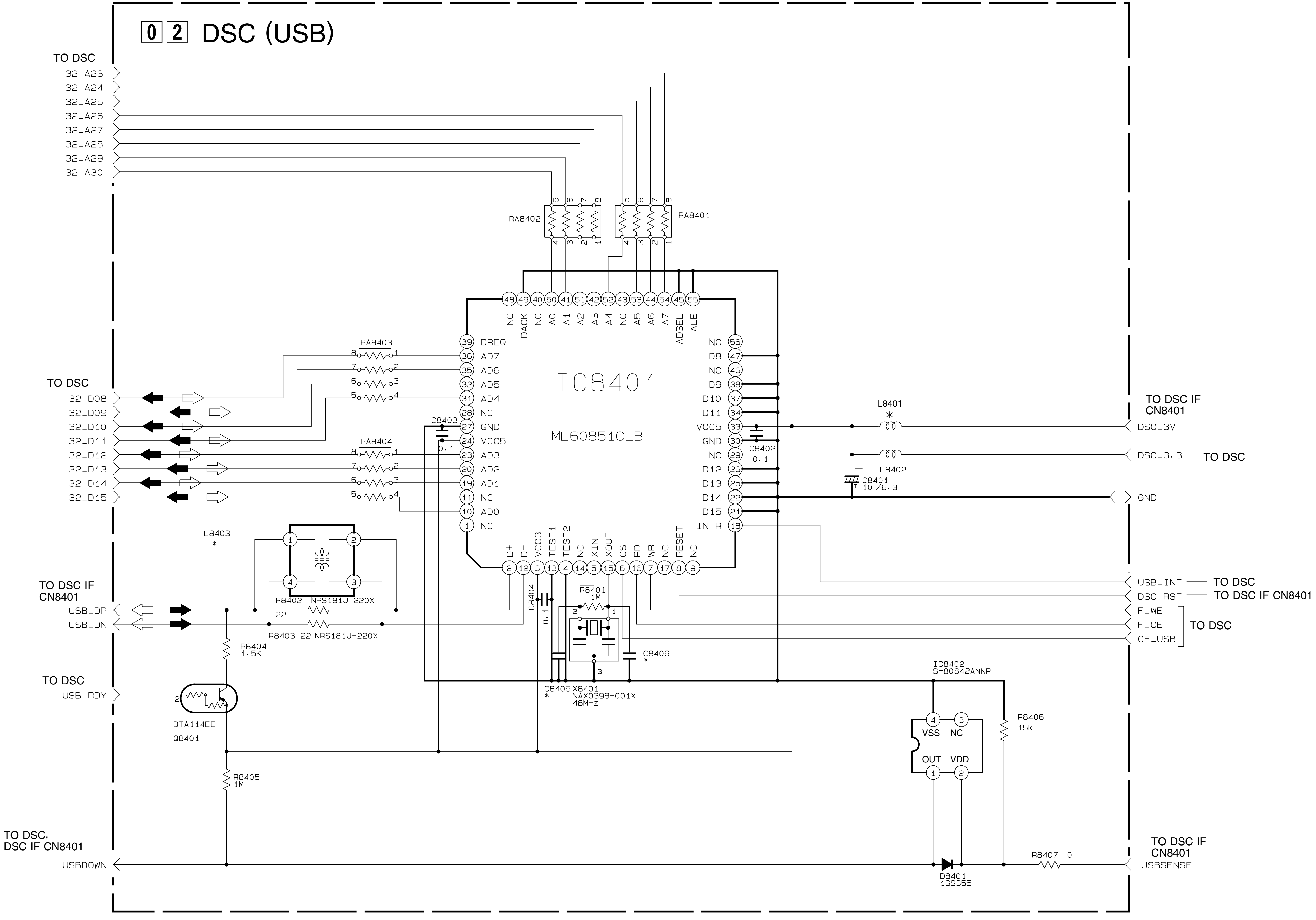
02 DSC (P SHIFT)
IC8201
JCY0145-2
IC8203
K4S643232C-TC70
IC8204
K4S641632D-TC1H
IC8202
MM1385GN
IC8205
TO DSC IF
CN8401
TO DSC
TO DSC IF
CN8401
TO DSC
TO DSC IF
CN8401
DSC_3V
GND
TRST
TMS
TCMK
TDI_C
TDO_C
OCLK72
CAM_HD
CAM_VD
CAM_FLD
VDIN
CALE
CLWE
CRE
CRWSEL
PS_CS
PS_RST1
PS_RST2
PS_OMT
PS_PWS
PS_BEND
TNW/VDX
BUS15
BUS0
REG_4.8V
LB201
LB202
LB203
LB204
LB205
LB206
NQR0265-001X
OCLK18/135
5
4
3
2
1
A
B
C
D
E
F
G
H

✳ NO WEAR

y10164001a_rev0

4.15 USB SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*
- *According to the parts which have no values are not used.*


0 2 DSC (USB)
TO DSC
32_A23
32_A24
32_A25
32_A26
32_A27
32_A28
32_A29
32_A30
RA8402
RA8401
IC8401
ML60851CLB
NC DACK NC A0 A1 A2 A3 A4 NC A5 A6 A7 ADSEL ALE
48 49 40 50 41 51 42 52 43 53 44 54 45 55
39 DREQ
36 AD7
35 AD6
32 AD5
31 AD4
28 NC
27 GND
24 VCC5
23 AD3
20 AD2
19 AD1
11 NC
10 AD0
1 NC
NC 56
D8 47
NC 46
D9 38
D10 37
D11 34
VCC5 33
GND 30
NC 29
D12 26
D13 25
D14 22
D15 21
INTR 18
D+ D- VCC3 TEST1 TEST2 NC XIN XOUT CS RD WR NC RESET NC
2 12 3 13 4 14 5 15 6 16 7 17 8 9
RA8403
RA8404
C8403
0.1
TO DSC
32_D08
32_D09
32_D10
32_D11
32_D12
32_D13
32_D14
32_D15
C8402
0.1
L8401
*
TO DSC IF
CN8401
DSC_3V
DSC_3.3 — TO DSC
L8402
C8401
10 /6.3
GND
L8403
*
TO DSC IF
CN8401
USB_DP
USB_DN
R8402 NRS181J-220X
22
R8403 22 NRS181J-220X
R8404
1.5K
C8404
0.1
R8401
1M
C8406
*
C8405 X8401
*
NAX0398-001X
48MHz
TO DSC
USB_RDY
DTA114EE
Q8401
R8405
1M
USB_INT — TO DSC
DSC_RST — TO DSC IF CN8401
F_WE
F_OE
CE_USB
TO DSC
IC8402
S-80842ANNP
VSS NC
OUT VDD
R8406
15k
TO DSC,
DSC IF CN8401
USBDOWN
D8401
1SS355
R8407 0
TO DSC IF
CN8401
USBSENSE

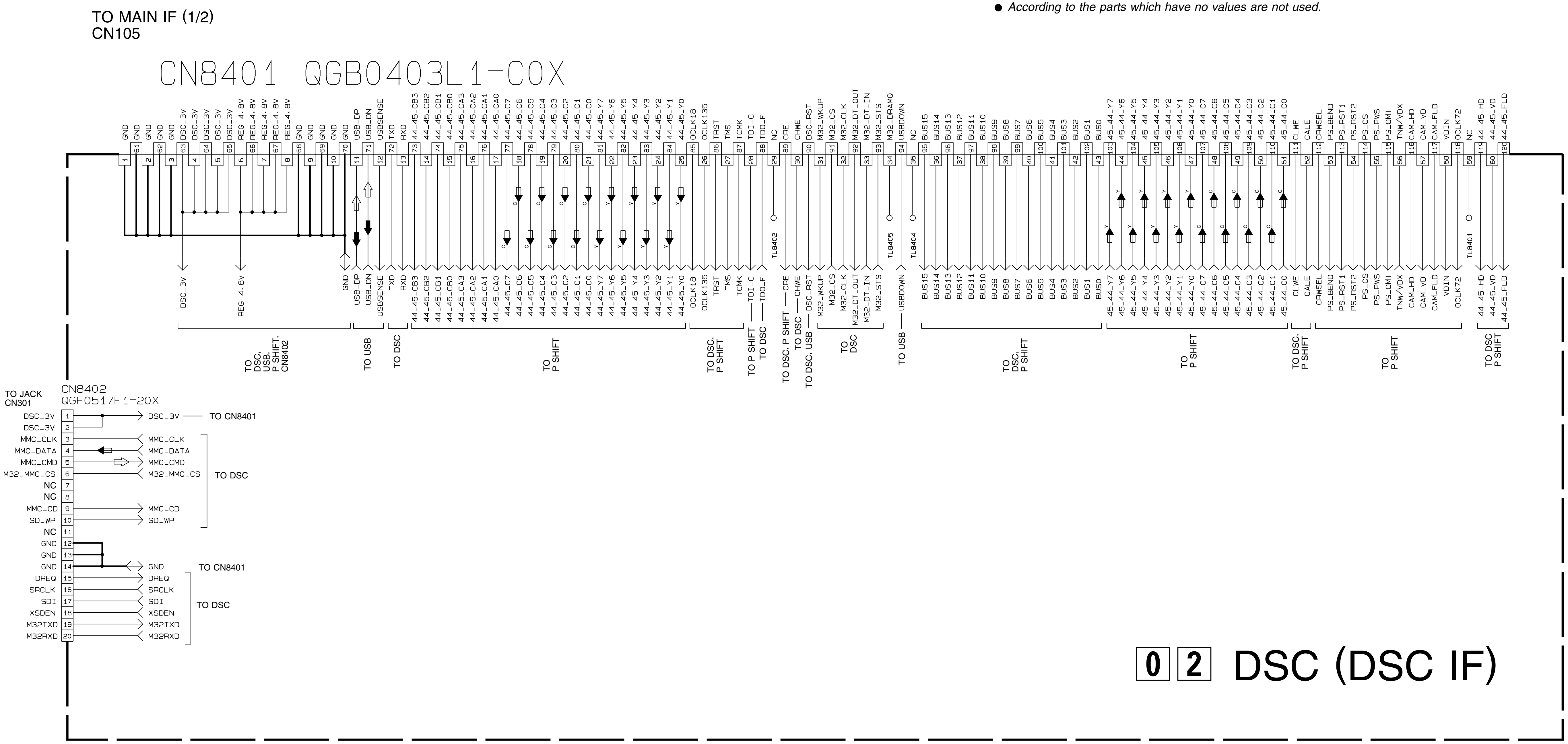
∗NO WEAR

y20103001a_rev0

4.16 DSC IF SCHEMATIC DIAGRAM

NOTES :

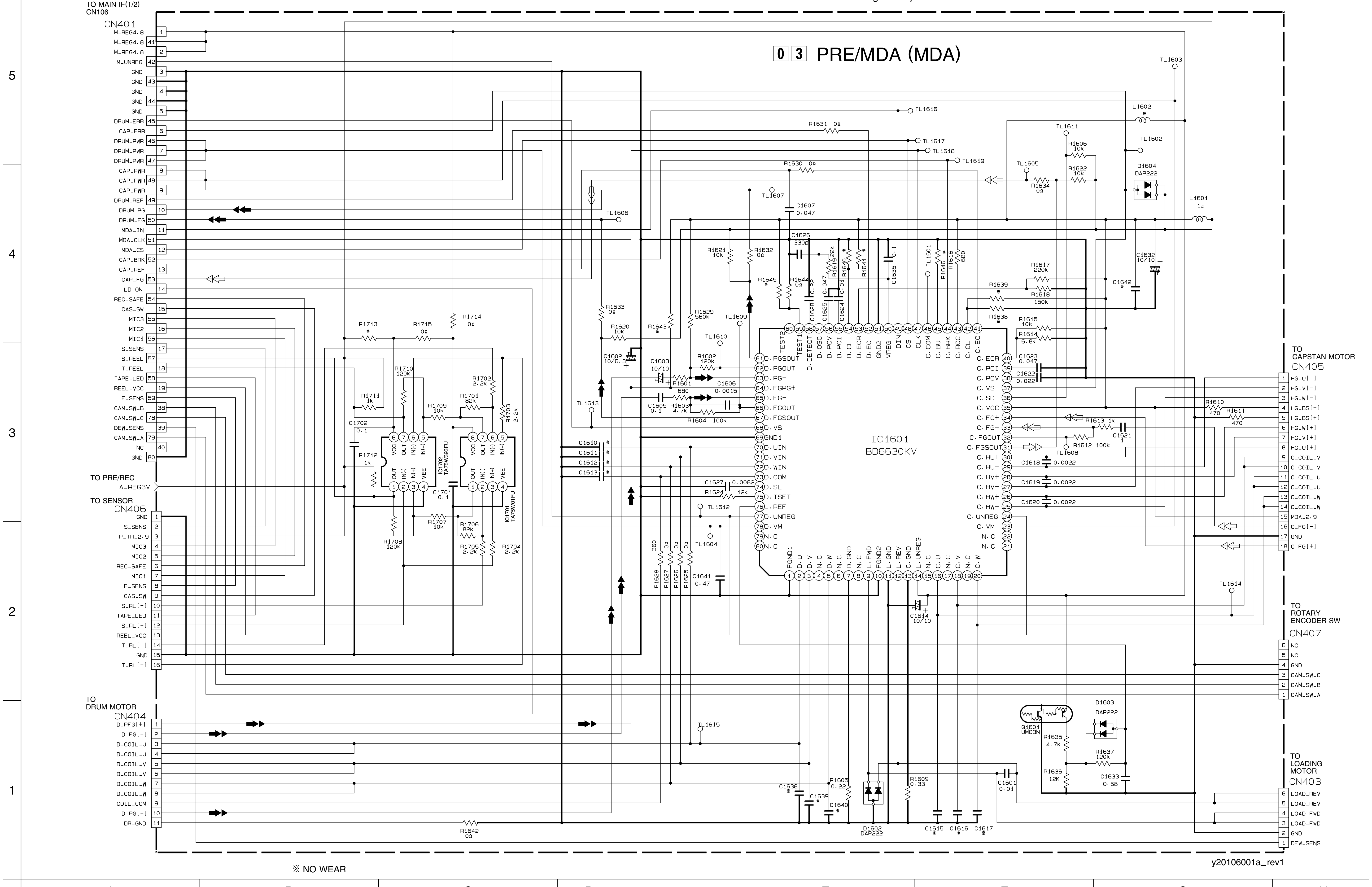
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*
- *According to the parts which have no values are not used.*


TO MAIN IF (1/2)
CN105
CN8401 QGB0403L1-C0X
TO DSC, USB, P SHIFT, CN8402
TO USB
TO DSC
TO P SHIFT
TO DSC, P SHIFT
TO P SHIFT
TO DSC
TO DSC, P SHIFT
TO DSC, USB
TO DSC
TO USB
TO DSC, P SHIFT
TO P SHIFT
TO DSC, P SHIFT
TO P SHIFT
TO DSC, P SHIFT
TL8402
TL8405
TL8404
TL8401
TO JACK
CN301
CN8402
QGF0517F1-20X
DSC_3V
DSC_3V
MMC_CLK
MMC_DATA
MMC_CMD
M32_MMC_CS
NC
NC
MMC_CD
SD_WP
NC
GND
GND
GND
DREQ
SRCLK
SDI
XSDEN
M32TXD
M32RXD
TO CN8401
TO DSC
TO CN8401
TO DSC
02 DSC (DSC IF)

y20105001a_rev0

4.17 MDA SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*
- *According to the parts which have no values are not used.*



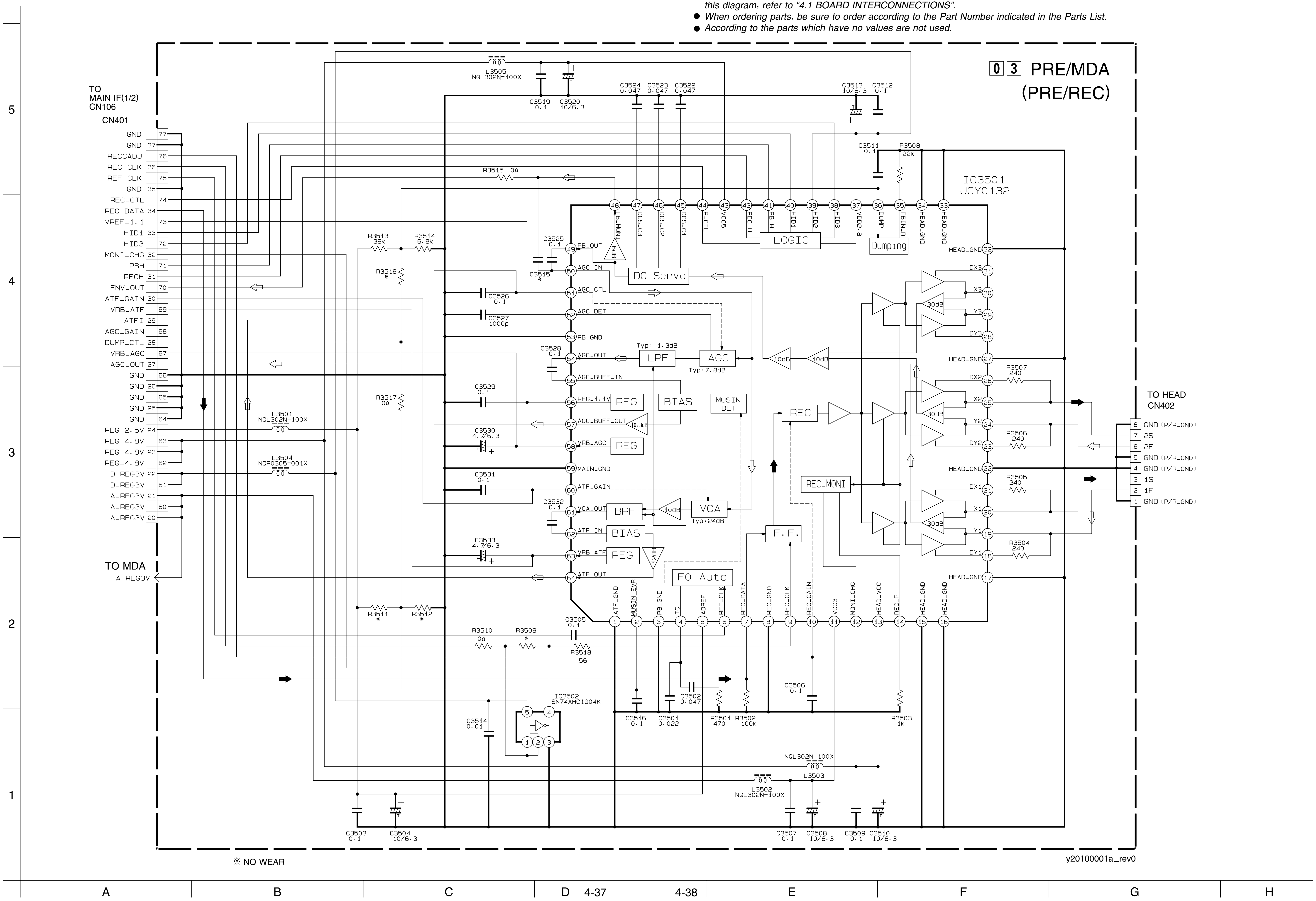
03 PRE/MDA (MDA)
TO MAIN IF(1/2)
CN106
CN401
M_REG4.8
M_UNREG
GND
DRUM_ERR
CAP_ERR
DRUM_PWR
CAP_PWR
DRUM_REF
DRUM_PG
DRUM_FG
MDA_IN
MDA_CLK
MDA_CS
CAP_BRK
CAP_REF
CAP_FG
LD_ON
REC_SAFE
CAS_SW
MIC3
MIC2
MIC1
S_SENS
S_REEL
T_REEL
TAPE_LED
REEL_VCC
E_SENS
CAM_SW_B
CAM_SW_C
DEW_SENS
CAM_SW_A
NC
TO PRE/REC
A_REG3V
TO SENSOR
CN406
P_TR_2.9
S_RL[-]
S_RL[+]
T_RL[-]
T_RL[+]
TO DRUM MOTOR
CN404
D_PFG[+]
D_FG[-]
D_COIL_U
D_COIL_V
D_COIL_W
COIL_COM
D_PG[-]
DR_GND
IC1601
BD6630KV
IC1701
TA75W01FU
IC1702
TA75W393FU
VCC
OUT
IN(-)
IN(+)
VEE
D.PGSOUT
D.PGOUT
D.PG-
D.FGPG+
D.FG-
D.FGOUT
D.FGSOUT
D.VS
GND1
D.UIN
D.VIN
D.WIN
D.COM
D.SL
D.ISET
L.REF
L.UNREG
D.VM
N.C
TEST2
TEST1
D.DETECT
D.OSC
D.PCV
D.PCI
D.CL
D.ECR
D.EC
GND2
VREG
DIN
CS
CLK
C.COM
C.BU
C.BRK
C.RCC
C.CL
C.EC
C.ECR
C.PCI
C.PCV
C.VS
C.SD
C.VCC
C.FG+
C.FG-
C.FGOUT
C.FGSOUT
C.HU+
C.HU-
C.HV+
C.HV-
C.HW+
C.HW-
C.UNREG
C.VM
FGND1
D.U
D.V
D.W
D.GND
L.FWD
FGND2
L.GND
L.REV
L.UNREG
C.GND
C.U
C.V
C.W
R1631 0Ω
R1630 0Ω
R1621 10k
R1632 0Ω
R1645
R1644 0Ω
R1633 0Ω
R1620 10k
R1643
R1629 560k
R1602 120k
R1601 680
R1603 4.7k
R1604 100k
R1624 12k
R1628 360
R1627 0Ω
R1626 0Ω
R1625 0Ω
R1619 22k
R1640
R1641
R1646
R1616 680
R1617 220k
R1618 150k
R1639
R1638
R1615 10k
R1614 6.8k
R1606 10k
R1622 10k
R1634 0Ω
R1610 470
R1611 470
R1613 1k
R1612 100k
R1605 0.22
R1609 0.33
R1635 4.7k
R1636 12k
R1637 120k
R1642 0Ω
R1713
R1715 0Ω
R1714 0Ω
R1710 120k
R1711 1k
R1712 1k
R1709 10k
R1701 82k
R1702 2.2k
R1703 2.2k
R1707 10k
R1706 82k
R1705 2.2k
R1704 2.2k
R1708 120k
C1607 0.047
C1626 330p
C1628 0.22
C1625 0.047
C1624 0.01
C1635 0.1
C1602 10/6.3
C1603 10/10
C1605 0.1
C1606 0.0015
C1610
C1611
C1612
C1613
C1627 0.0082
C1641 0.47
C1623 0.047
C1622 0.022
C1621 1
C1618 0.0022
C1619 0.0022
C1620 0.0022
C1642
C1632 10/10
C1614 10/10
C1638
C1639
C1640
C1601 0.01
C1615
C1616
C1617
C1633 0.68
C1701 0.1
C1702 0.1
L1601 1μ
L1602
D1602 DAP222
D1603 DAP222
D1604 DAP222
Q1601 UMC3N
TL1601
TL1602
TL1603
TL1604
TL1605
TL1606
TL1607
TL1608
TL1609
TL1610
TL1611
TL1612
TL1613
TL1614
TL1615
TL1616
TL1617
TL1618
TL1619
TO CAPSTAN MOTOR
CN405
HG_U[-]
HG_V[-]
HG_W[-]
HG_BS[-]
HG_BS[+]
HG_W[+]
HG_V[+]
HG_U[+]
C_COIL_V
C_COIL_U
C_COIL_W
MDA_2.9
C_FG[-]
C_FG[+]
TO ROTARY ENCODER SW
CN407
CAM_SW_C
CAM_SW_B
CAM_SW_A
TO LOADING MOTOR
CN403
LOAD_REV
LOAD_FWD
DEW_SENS
1
2
3
4
5
A
B
C
D
E
F
G
H

※ NO WEAR

y20106001a_rev1

4.18 PRE/REC SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*
- *According to the parts which have no values are not used.*



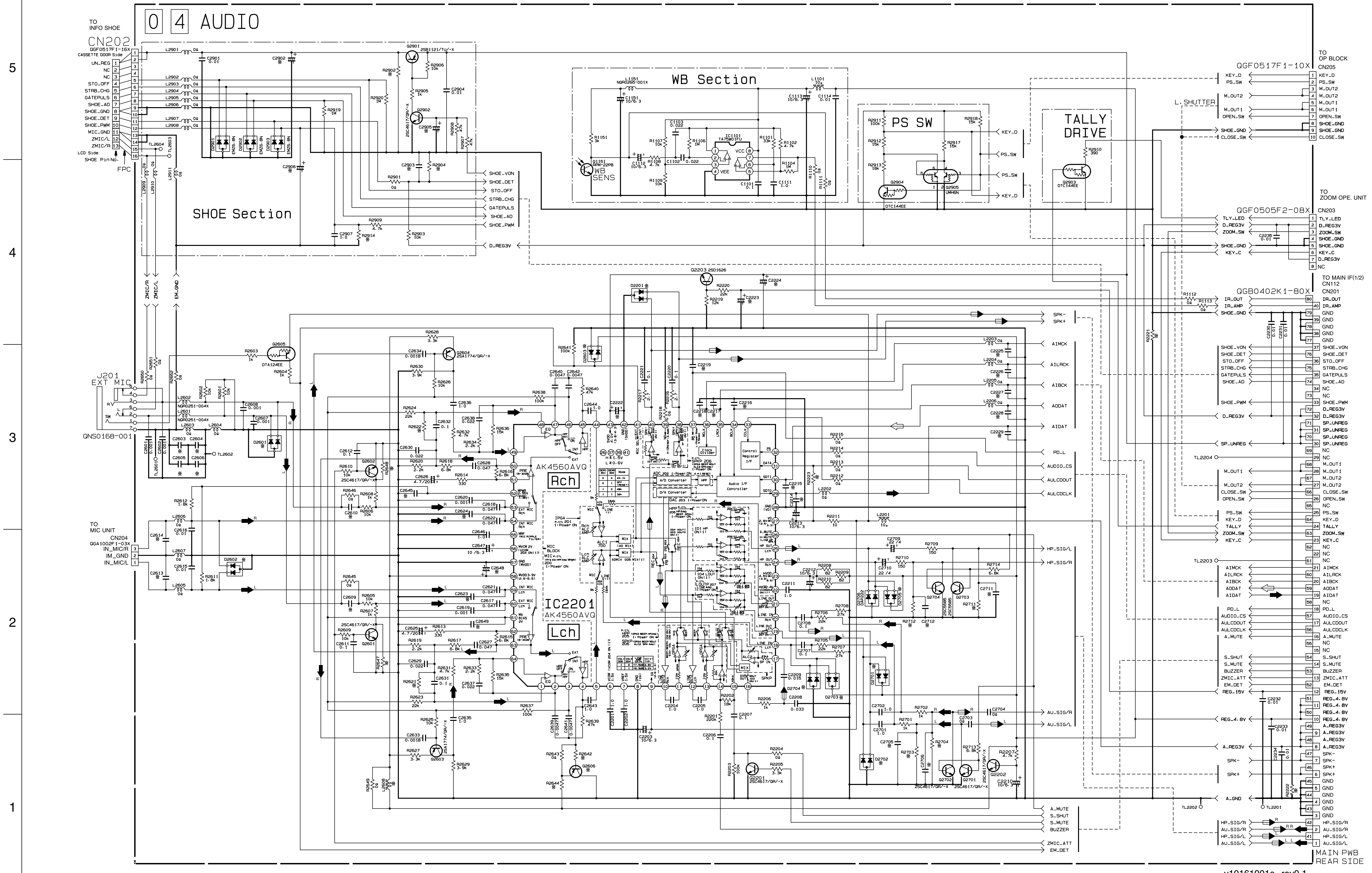
03 PRE/MDA
(PRE/REC)
TO MAIN IF(1/2) CN106
CN401
GND 77
GND 37
RECCADJ 76
REC_CLK 36
REF_CLK 75
GND 35
REC_CTL 74
REC_DATA 34
VREF_1.1 73
HID1 33
HID3 72
MONI_CHG 32
PBH 71
RECH 31
ENV_OUT 70
ATF_GAIN 30
VRB_ATF 69
ATFI 29
AGC_GAIN 68
DUMP_CTL 28
VRB_AGC 67
AGC_OUT 27
GND 66
GND 26
GND 65
GND 25
GND 64
REG_2.5V 24
REG_4.8V 63
REG_4.8V 23
REG_4.8V 62
D_REG3V 22
D_REG3V 61
A_REG3V 21
A_REG3V 60
A_REG3V 20
TO MDA
A_REG3V
L3505 NQL302N-100X
C3519 0.1
C3520 10/6.3
C3524 0.047
C3523 0.047
C3522 0.047
C3513 10/6.3
C3512 0.1
C3511 0.1
R3508 22k
R3515 0Ω
R3513 39k
R3514 6.8k
R3516 ※
C3525 0.1
C3515 ※
C3526 0.1
C3527 1000p
C3528 0.1
C3529 0.1
R3517 0Ω
L3501 NQL302N-100X
L3504 NQR0305-001X
C3530 4.7/6.3
C3531 0.1
C3532 0.1
C3533 4.7/6.3
IC3501 JCY0132
48 PB_MONI
47 DCS_C3
46 DCS_C2
45 DCS_C1
44 R_CTL
43 VCC5
42 REC_H
41 PB_H
40 HID1
39 HID2
38 HID3
37 VDD2.8
36 DUMP
35 PBIN_R
34 HEAD_GND
33 HEAD_GND
49 PB_OUT
50 AGC_IN
51 AGC_CTL
52 AGC_DET
53 PB_GND
54 AGC_OUT
55 AGC_BUFF_IN
56 REG_1.1V
57 AGC_BUFF_OUT
58 VRB_AGC
59 MAIN_GND
60 ATF_GAIN
61 VCA_OUT
62 ATF_IN
63 VRB_ATF
64 ATF_OUT
6dB
DC Servo
LOGIC
Dumping
Typ:-1.3dB
LPF
AGC
Typ:7.8dB
BIAS
REG
MUSIN DET
10.3dB
BPF
10dB
VCA
Typ:24dB
12dB
F0 Auto
REC
REC_MONI
F.F.
1 ATF_GND
2 MUSIN_EVR
3 PB_GND
4 TC
5 ADREF
6 REF_CLK
7 REC_DATA
8 REC_GND
9 REC_CLK
10 REC_GAIN
11 VCC3
12 MONI_CHG
13 HEAD_VCC
14 REC_R
15 HEAD_GND
16 HEAD_GND
HEAD_GND 32
DX3 31
X3 30
Y3 29
DY3 28
HEAD_GND 27
DX2 26
X2 25
Y2 24
DY2 23
HEAD_GND 22
DX1 21
X1 20
Y1 19
DY1 18
HEAD_GND 17
30dB
10dB
R3507 240
R3506 240
R3505 240
R3504 240
TO HEAD CN402
8 GND (P/R_GND)
7 2S
6 2F
5 GND (P/R_GND)
4 GND (P/R_GND)
3 1S
2 1F
1 GND (P/R_GND)
R3511 ※
R3512 ※
R3510 0Ω
R3509 ※
C3505 0.1
R3518 56
IC3502 SN74AHC1G04K
C3514 0.01
C3516 0.1
C3501 0.022
C3502 0.047
R3501 470
R3502 100k
C3506 0.1
R3503 1k
NQL302N-100X
L3503
L3502 NQL302N-100X
C3503 0.1
C3504 10/6.3
C3507 0.1
C3508 10/6.3
C3509 0.1
C3510 10/6.3
A
B
C
D
E
F
G
H
1
2
3
4
5

※ NO WEAR

y20100001a_rev0

4.19 AUDIO SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*
- *According to the parts which have no values are not used.*

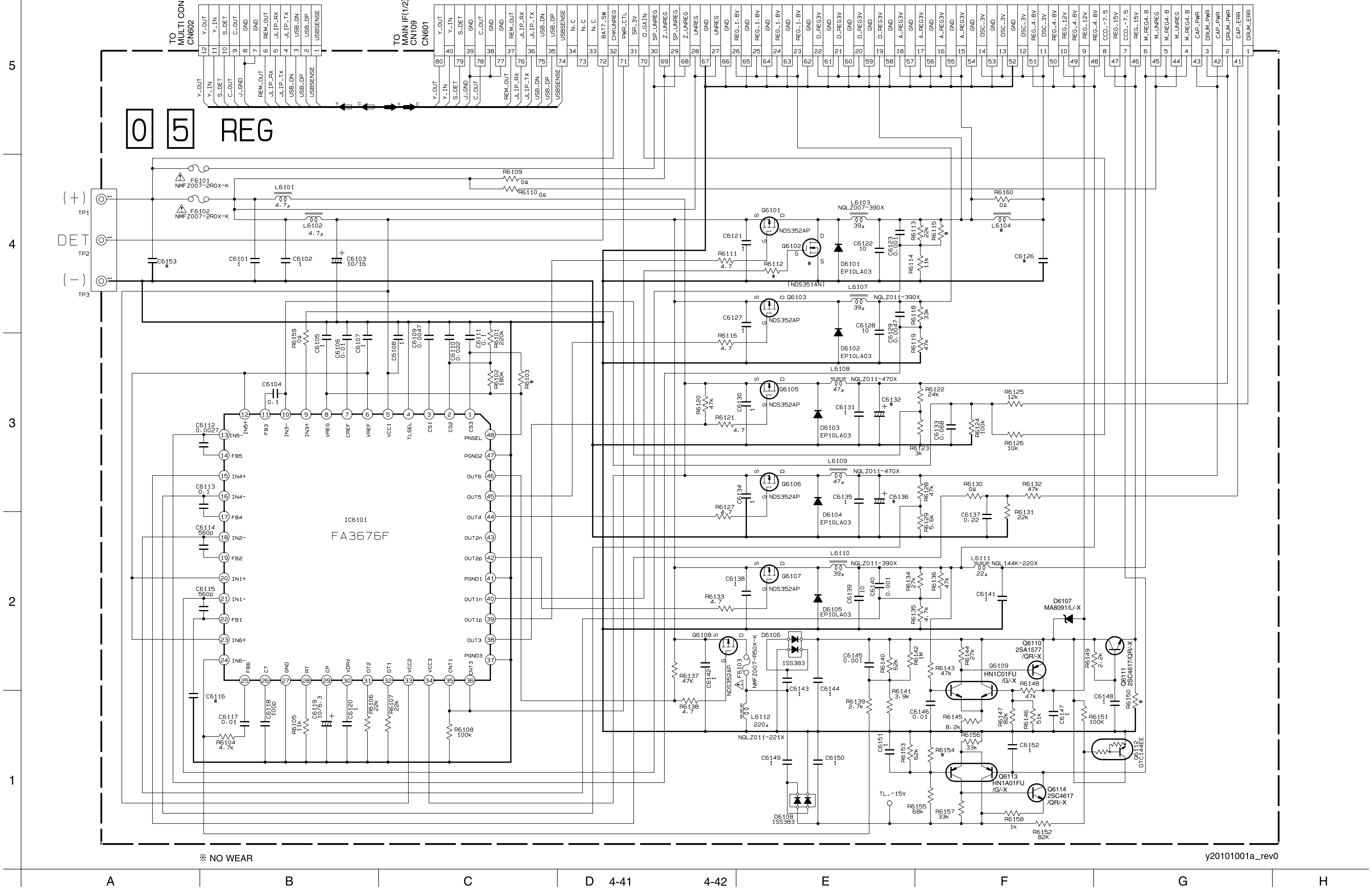

0 4 AUDIO
TO INFO SHOE
CN202
QGF0517F1-16X
CASSETTE DOOR Side
UN_REG
NC
STO_OFF
STRB_CHG
GATEPULS
SHOE_AD
SHOE_GND
SHOE_DET
SHOE_PWM
MIC_GND
ZMIC/L
ZMIC/R
LCD Side
SHOE Pin No.
FPC
SHOE Section
SHOE_VON
SHOE_DET
STO_OFF
STRB_CHG
GATEPULS
SHOE_AD
SHOE_PWM
D_REG3V
WB Section
WB SENS
IC1101 TA75W01FU
PS SW
KEY_D
PS_SW
TALLY DRIVE
L.SHUTTER
TO OP BLOCK
QGF0517F1-10X
CN205
KEY_D
PS_SW
M_OUT2
M_OUT1
OPEN_SW
SHOE_GND
CLOSE_SW
TO ZOOM OPE. UNIT
QGF0505F2-08X
CN203
TLY_LED
D_REG3V
ZOOM_SW
KEY_C
NC
TO MAIN IF(1/2)
CN112
QGB0402K1-80X
CN201
IR_OUT
IR_AMP
GND
ZMIC/R
ZMIC/L
EM_GND
J201
EXT MIC
QNS0168-001
TO MIC UNIT
CN204
QGA1002F1-03X
IN_MIC/R
IN_GND
IN_MIC/L
IC2201
AK4560AVQ
Rch
Lch
SPK-
SPK+
AIMCK
AILRCK
AIBCK
AODAT
AIDAT
PD_L
AUDIO_CS
AULCDOUT
AULCDCLK
HP_SIG/L
HP_SIG/R
AU_SIG/R
AU_SIG/L
REG_4.8V
A_REG3V
A_GND
A_MUTE
S_SHUT
S_MUTE
BUZZER
ZMIC_ATT
EM_DET
SP_UNREG
REG_15V
TL2204
TL2203
TL2202
TL2201
MAIN PWB
REAR SIDE
1
2
3
4
5
A
B
C
D
E
F
G
H

※ NO WEAR

y10161001a_rev0.1

4.20 REG SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*
- *According to the parts which have no values are not used.*

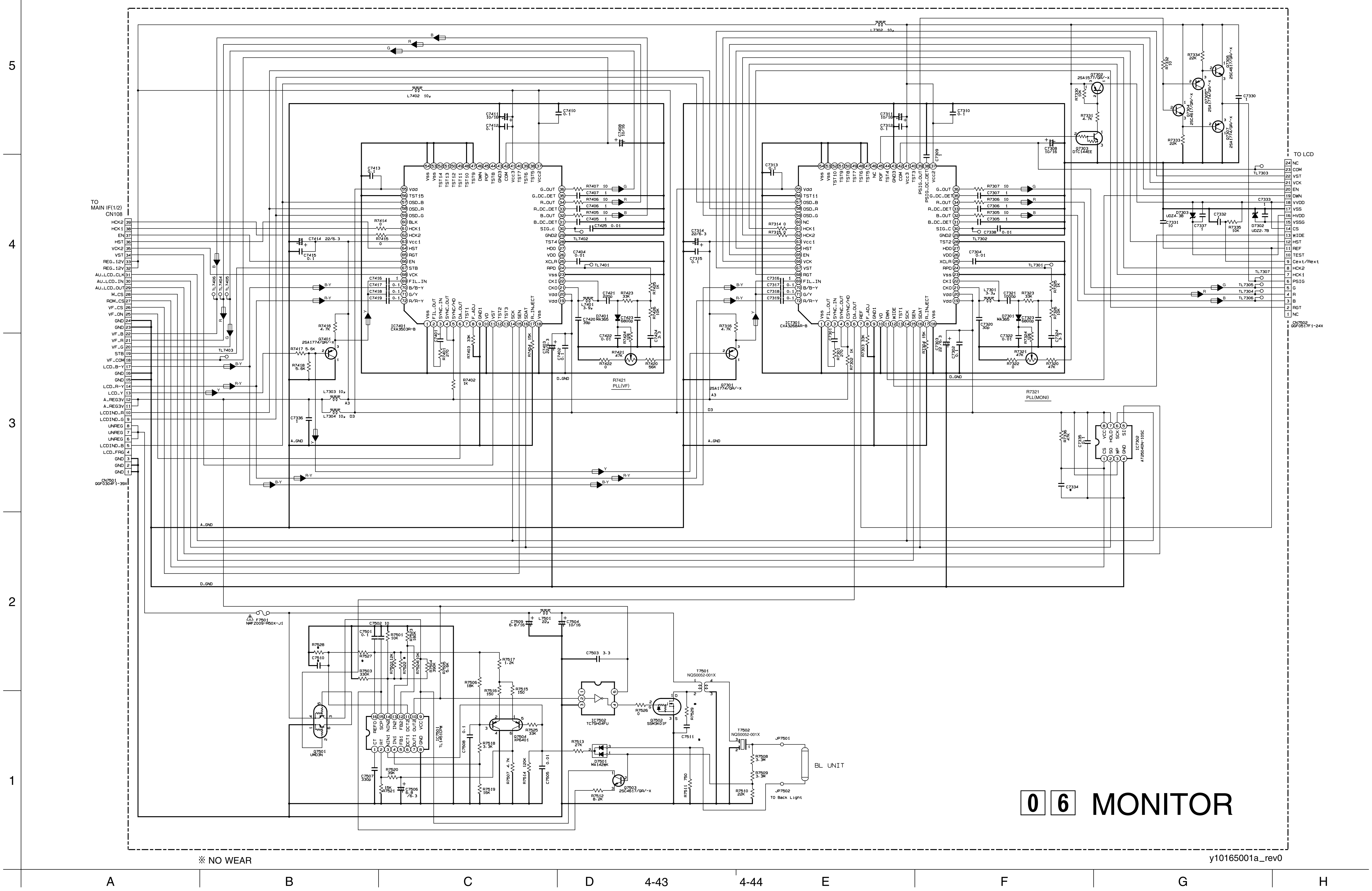

TO MULTI CONNECTOR CN602
TO MAIN IF(1/2) CN109 CN601
05 REG
(+) TP1
DET TP2
(−) TP3
F6101 NMFZ007-2R0X-K
F6102 NMFZ007-2R0X-K
L6101 4.7μ
L6102 4.7μ
R6109 0Ω
R6110 0Ω
C6153
C6101 1
C6102 1
C6103 10/16
C6104 0.1
IC6101 FA3676F
Q6101 NDS352AP
Q6102 NDS351AN
Q6103 NDS352AP
Q6105 NDS352AP
Q6106 NDS352AP
Q6107 NDS352AP
Q6108 NDS352AP
D6101 EP10LA03
D6102 EP10LA03
D6103 EP10LA03
D6104 EP10LA03
D6105 EP10LA03
D6106 1SS383
D6107 MA8091/L/-X
D6108 1SS383
L6103 NQLZ007-390X 39μ
L6104
L6107 NQLZ011-390X 39μ
L6108 NQLZ011-470X 47μ
L6109 NQLZ011-470X 47μ
L6110 NQLZ011-390X 39μ
L6111 NQL144K-220X 22μ
L6112 220μ NQLZ011-221X
F6103 NMFZ007-R50X-K
Q6109 HN1C01FU /G/-X
Q6110 2SA1577 /QR/-X
Q6111 2SC4617/QR/-X
Q6112 DTC144EE
Q6113 HN1A01FU /G/-X
Q6114 2SC4617 /QR/-X
TL-15V
1
2
3
4
5
A
B
C
D
E
F
G
H

※ NO WEAR

y20101001a_rev0

4.21 MONITOR SCHEMATIC DIAGRAM

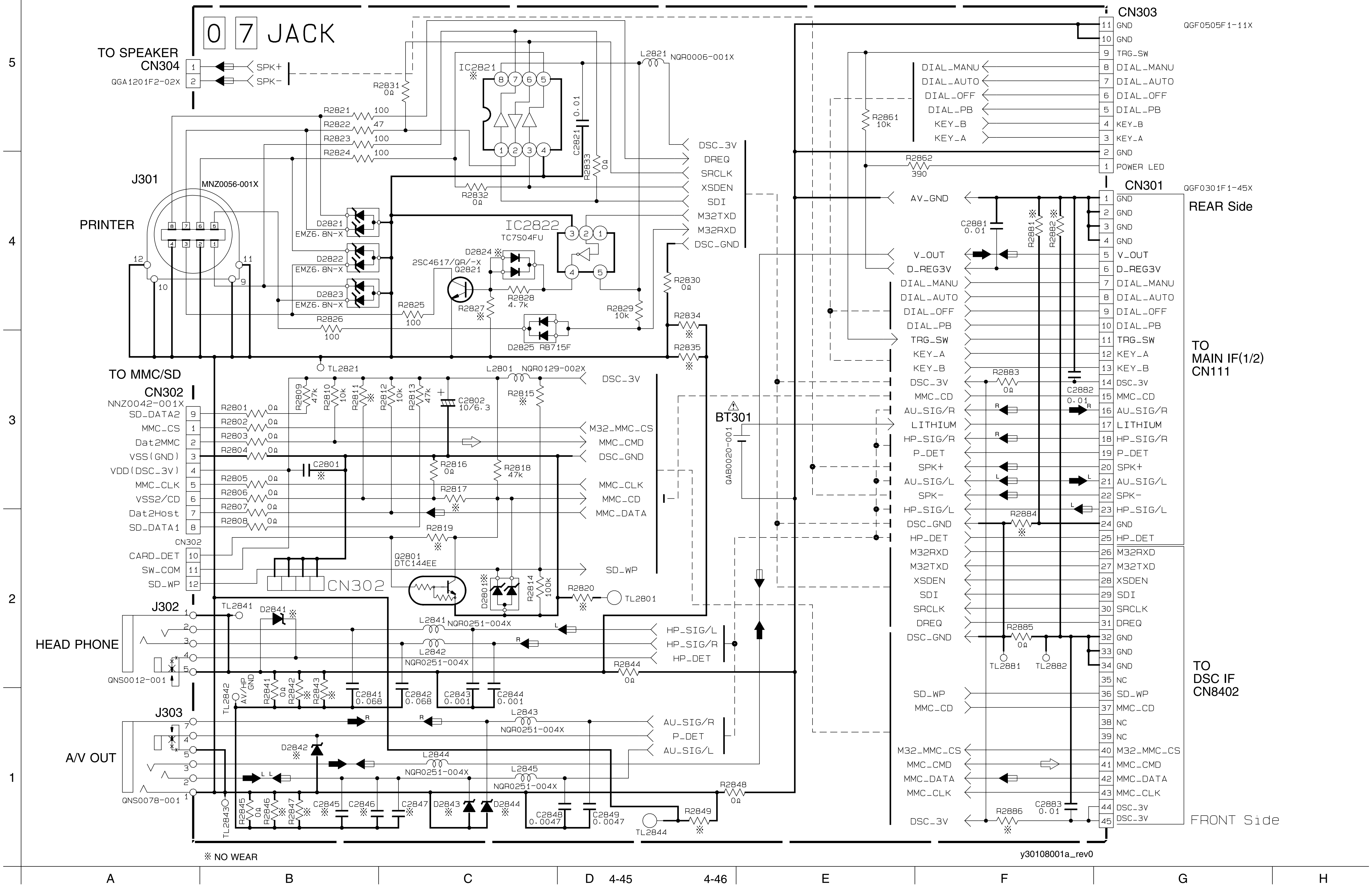
NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*
- *According to the parts which have no values are not used.*



TO MAIN IF(1/2) CN108
CN7501 QGF0304F1-39X
IC7401 CXA3503R-B
IC7301 CXA3268AR-B
IC7302 AT25040N-10SC
TO LCD
CN7502 QGF0517F1-24X
R7421 PLL(VF)
R7321 PLL(MONI)
A.GND
D.GND
IC7501 TL1451CPW
IC7502 TC7SH04FU
Q7501 UMD3N
Q7502 SSM3K01F
Q7503 2SC4617/QR/-X
Q7504 XP6401
T7501 NQS0052-001X
T7502 NQS0052-001X
F7501 NMFZ009-R50X-J1
JP7501
JP7502 TO Back Light
BL UNIT
0 6 MONITOR
※ NO WEAR
y10165001a_rev0
1
2
3
4
5
A
B
C
D
E
F
G
H

4.22 JACK SCHEMATIC DIAGRAM

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*
● *According to the parts which have no values are not used.*



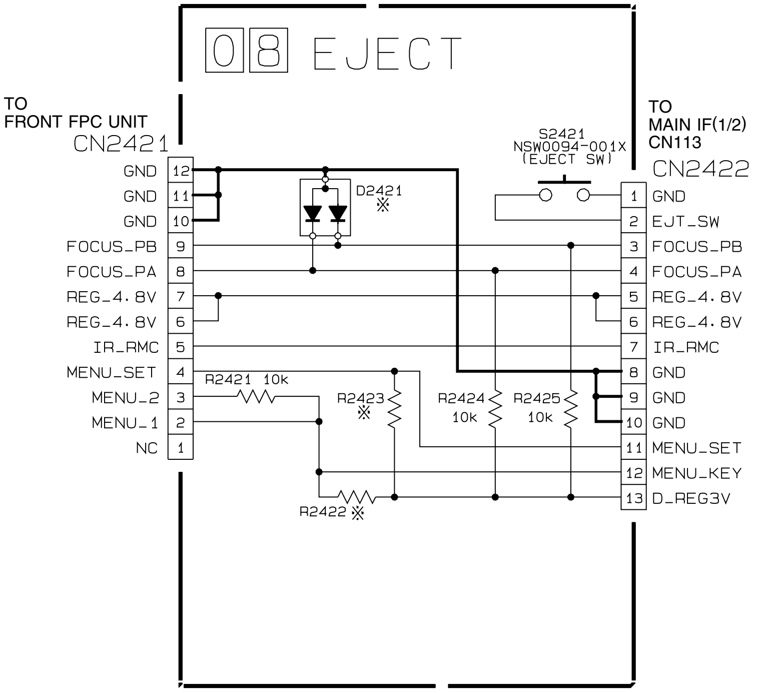
07 JACK
TO SPEAKER CN304
QGA1201F2-02X
SPK+
SPK-
TO POWER OPE. UNIT
CN303
QGF0505F1-11X
11 GND
10 GND
9 TRG_SW
8 DIAL_MANU
7 DIAL_AUTO
6 DIAL_OFF
5 DIAL_PB
4 KEY_B
3 KEY_A
2 GND
1 POWER LED
CN301
QGF0301F1-45X
REAR Side
1 GND
2 GND
3 GND
4 GND
5 V_OUT
6 D_REG3V
7 DIAL_MANU
8 DIAL_AUTO
9 DIAL_OFF
10 DIAL_PB
11 TRG_SW
12 KEY_A
13 KEY_B
14 DSC_3V
15 MMC_CD
16 AU_SIG/R
17 LITHIUM
18 HP_SIG/R
19 P_DET
20 SPK+
21 AU_SIG/L
22 SPK-
23 HP_SIG/L
24 GND
25 HP_DET
26 M32RXD
27 M32TXD
28 XSDEN
29 SDI
30 SRCLK
31 DREQ
32 GND
33 GND
34 GND
35 NC
36 SD_WP
37 MMC_CD
38 NC
39 NC
40 M32_MMC_CS
41 MMC_CMD
42 MMC_DATA
43 MMC_CLK
44 DSC_3V
45 DSC_3V
FRONT Side
TO MAIN IF(1/2) CN111
TO DSC IF CN8402
AV_GND
R2861 10k
R2862 390
C2881 0.01
R2881 ※
R2882 ※
R2883 0Ω
C2882 0.01
R2884 ※
R2885 0Ω
TL2881
TL2882
R2886 ※
C2883 0.01
IC2821 ※
L2821 NQR0006-001X
R2831 0Ω
R2821 100
R2822 47
R2823 100
R2824 100
C2821 0.01
R2833 0Ω
R2832 0Ω
DSC_3V
DREQ
SRCLK
XSDEN
SDI
M32TXD
M32RXD
DSC_GND
J301
MNZ0056-001X
PRINTER
D2821 EMZ6.8N-X
D2822 EMZ6.8N-X
D2823 EMZ6.8N-X
IC2822 TC7S04FU
D2824 ※
2SC4617/QR/-X Q2821
R2825 100
R2826 100
R2827 ※
R2828 4.7k
R2829 10k
R2830 0Ω
R2834 ※
R2835 ※
D2825 RB715F
TO MMC/SD CN302
NNZ0042-001X
SD_DATA2
MMC_CS
Dat2MMC
VSS(GND)
VDD(DSC_3V)
MMC_CLK
VSS2/CD
Dat2Host
SD_DATA1
CARD_DET
SW_COM
SD_WP
TL2821
L2801 NQR0129-002X
R2801 0Ω
R2802 0Ω
R2803 0Ω
R2804 0Ω
R2805 0Ω
R2806 0Ω
R2807 0Ω
R2808 0Ω
R2809 47k
R2810 10k
R2811 ※
R2812 10k
R2813 47k
C2802 10/6.3
R2815 ※
C2801 ※
R2816 0Ω
R2817 ※
R2818 47k
R2819 ※
Q2801 DTC144EE
D2801 ※
R2814 100k
R2820 ※
TL2801
M32_MMC_CS
MMC_CMD
MMC_CLK
MMC_CD
MMC_DATA
SD_WP
BT301
QAB0020-001
J302
HEAD PHONE
QNS0012-001
TL2841
D2841 ※
L2841 NQR0251-004X
L2842 NQR0251-004X
HP_SIG/L
HP_SIG/R
HP_DET
R2844 0Ω
TL2842
AV/HP GND
R2841 0Ω
R2842 ※
R2843 ※
C2841 0.068
C2842 0.068
C2843 0.001
C2844 0.001
J303
A/V OUT
QNS0078-001
D2842 ※
L2843 NQR0251-004X
L2844 NQR0251-004X
L2845 NQR0251-004X
AU_SIG/R
P_DET
AU_SIG/L
TL2843
R2845 0Ω
R2846 ※
R2847 ※
C2845 ※
C2846 ※
C2847 ※
D2843 ※
D2844 ※
C2848 0.0047
C2849 0.0047
R2848 0Ω
R2849 ※
TL2844
V_OUT
D_REG3V
LITHIUM

※ NO WEAR

y30108001a_rev0

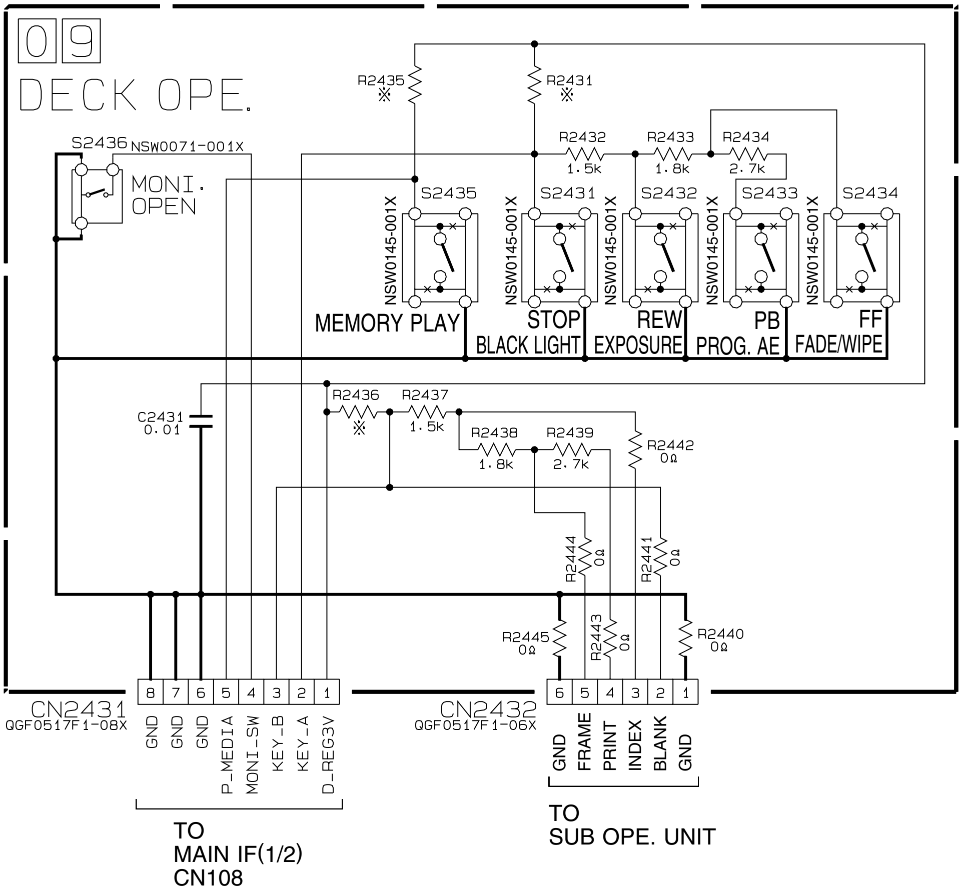
4.23 EJECT AND DECK OPE. SCHEMATIC DIAGRAMS

NOTES : ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*
● *According to the parts which have no values are not used.*



08 EJECT
TO FRONT FPC UNIT
CN2421
12 GND
11 GND
10 GND
9 FOCUS_PB
8 FOCUS_PA
7 REG_4.8V
6 REG_4.8V
5 IR_RMC
4 MENU_SET
3 MENU_2
2 MENU_1
1 NC
D2421 ※
R2421 10k
R2423 ※
R2424 10k
R2425 10k
R2422 ※
S2421
NSW0094-001X
(EJECT SW)
TO MAIN IF(1/2) CN113
CN2422
1 GND
2 EJT_SW
3 FOCUS_PB
4 FOCUS_PA
5 REG_4.8V
6 REG_4.8V
7 IR_RMC
8 GND
9 GND
10 GND
11 MENU_SET
12 MENU_KEY
13 D_REG3V

※ NO WEAR

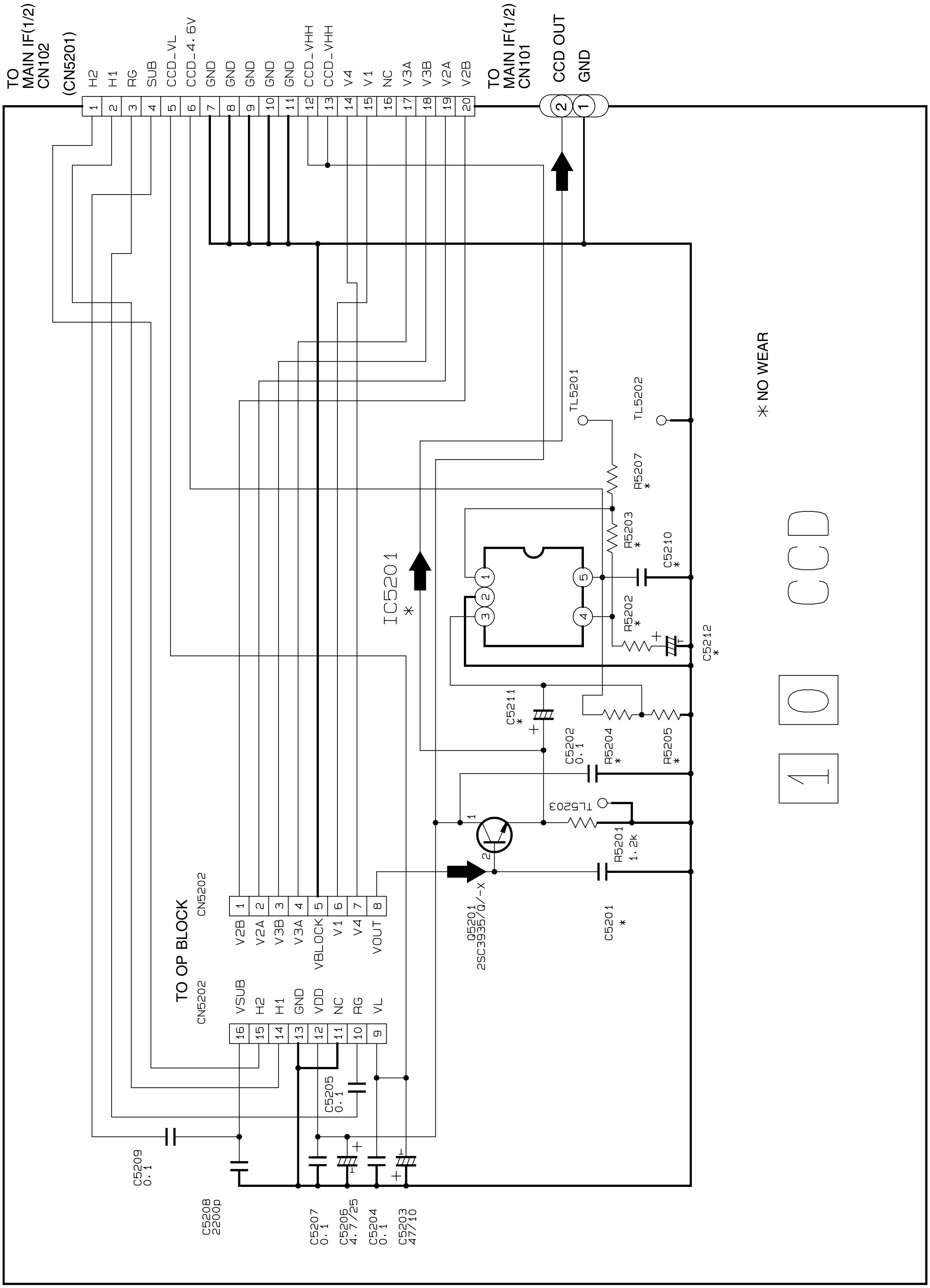


09 DECK OPE.
S2436 NSW0071-001X
MONI. OPEN
R2435 ※
R2431 ※
R2432 1.5k
R2433 1.8k
R2434 2.7k
S2435
S2431
S2432
S2433
S2434
NSW0145-001X
NSW0145-001X
NSW0145-001X
NSW0145-001X
NSW0145-001X
MEMORY PLAY
STOP BLACK LIGHT
REW EXPOSURE
PB PROG. AE
FF FADE/WIPE
C2431 0.01
R2436 ※
R2437 1.5k
R2438 1.8k
R2439 2.7k
R2442 0Ω
R2444 0Ω
R2441 0Ω
R2445 0Ω
R2443 0Ω
R2440 0Ω
CN2431
QGF0517F1-08X
8 GND
7 GND
6 GND
5 P_MEDIA
4 MONI_SW
3 KEY_B
2 KEY_A
1 D_REG3V
CN2432
QGF0517F1-06X
6 GND
5 FRAME
4 PRINT
3 INDEX
2 BLANK
1 GND
TO MAIN IF(1/2) CN108
TO SUB OPE. UNIT

y20108001a_rev0

4.24 CCD SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *When ordering parts, be sure to order according to the Part Number indicated in the Parts List.*
- *According to the parts which have no values are not used.*



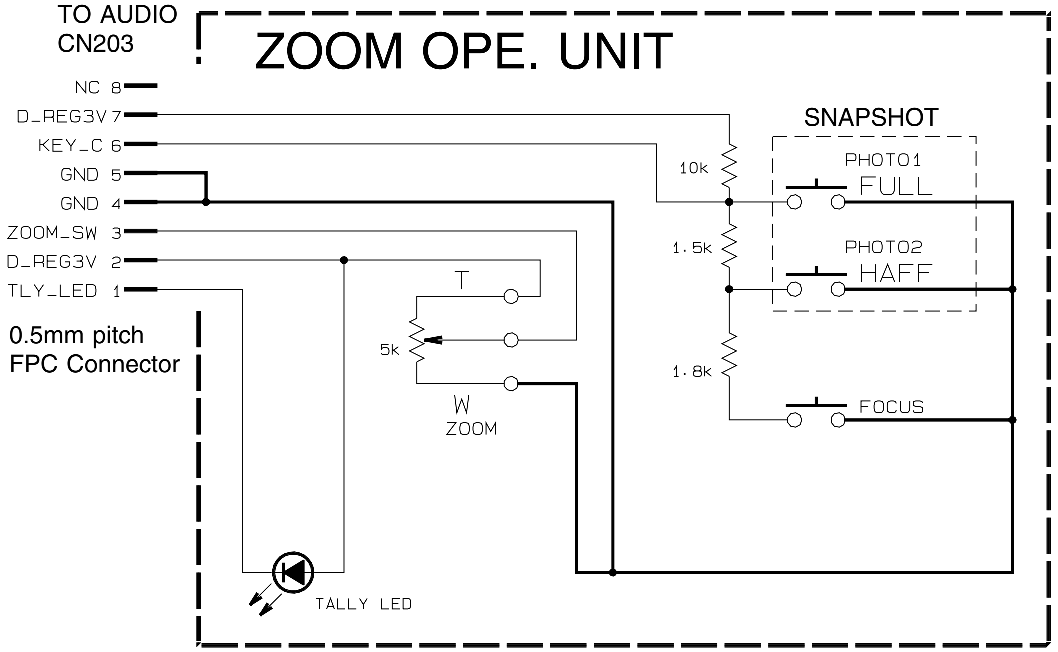
TO MAIN IF(1/2) CN102
(CN5201)
1 H2
2 H1
3 RG
4 SUB
5 CCD_VL
6 CCD_4.6V
7 GND
8 GND
9 GND
10 GND
11 GND
12 CCD_VHH
13 CCD_VHH
14 V4
15 V1
16 NC
17 V3A
18 V3B
19 V2A
20 V2B
TO MAIN IF(1/2) CN101
CCD OUT
GND
2
1
✳ NO WEAR
TL5201
TL5202
R5207 ✳
R5203 ✳
C5210 ✳
R5202 ✳
C5212 ✳
IC5201 ✳
1
2
3
4
5
C5211 ✳
C5202 0.1
R5204 ✳
R5205 ✳
TL5203
R5201 1.2k
Q5201 2SC3935/Q/-X
C5201 ✳
10 CCD
TO OP BLOCK
CN5202
1 V2B
2 V2A
3 V3B
4 V3A
5 VBLOCK
6 V1
7 V4
8 VOUT
CN5202
16 VSUB
15 H2
14 H1
13 GND
12 VDD
11 NC
10 RG
9 VL
C5205 0.1
C5209 0.1
C5208 2200p
C5207 0.1
C5206 4.7/25
C5204 0.1
C5203 47/10

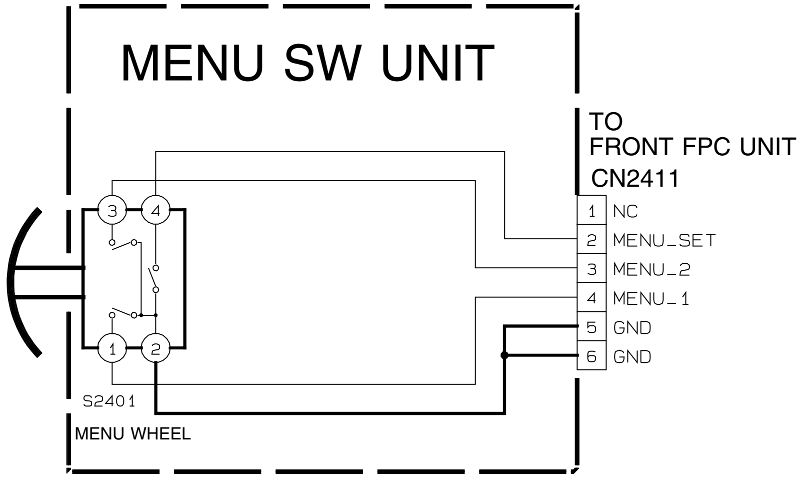
y30107001a_rev0

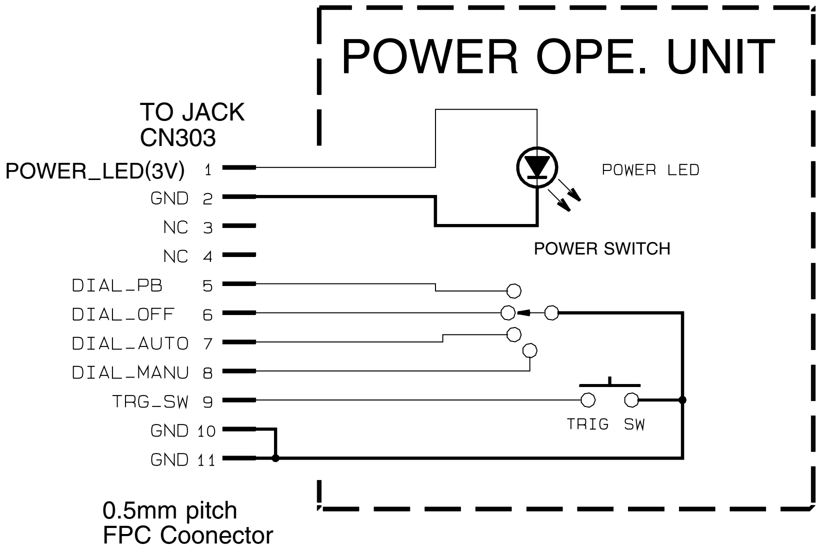
5
4
3
2
1

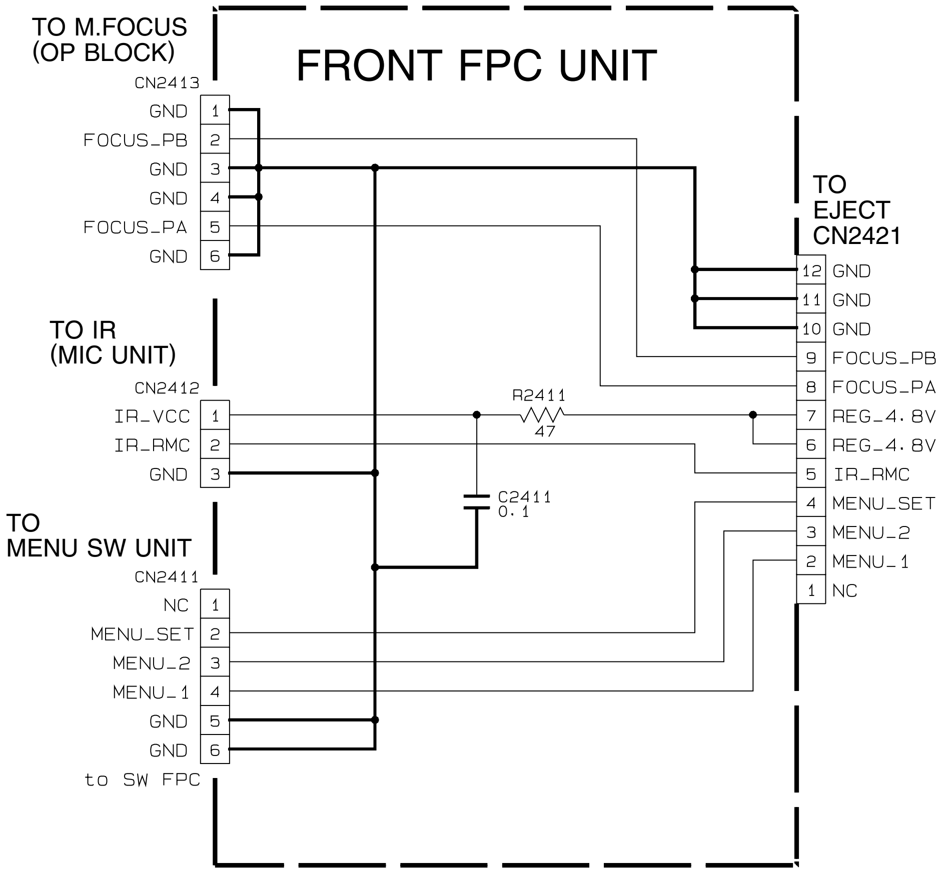
4.25 ZOOM OPE. UNIT, POWER OPE. UNIT, SUB OPE. UNIT, MENU SW UNIT AND FRONT FPC UNIT SCHEMATIC DIAGRAMS

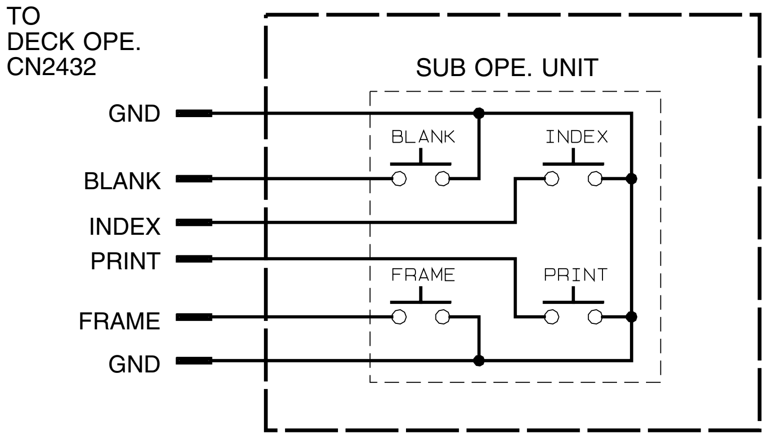
NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *The schematic diagram is only for reference. Avoid replacing individual parts. Replace the entire unit only.*


TO AUDIO
CN203
ZOOM OPE. UNIT
NC 8
D_REG3V 7
KEY_C 6
GND 5
GND 4
ZOOM_SW 3
D_REG3V 2
TLY_LED 1
0.5mm pitch
FPC Connector
SNAPSHOT
10k
PHOTO1
FULL
1.5k
PHOTO2
HAFF
1.8k
FOCUS
T
5k
W
ZOOM
TALLY LED


MENU SW UNIT
TO
FRONT FPC UNIT
CN2411
1 NC
2 MENU_SET
3 MENU_2
4 MENU_1
5 GND
6 GND
3
4
1
2
S2401
MENU WHEEL

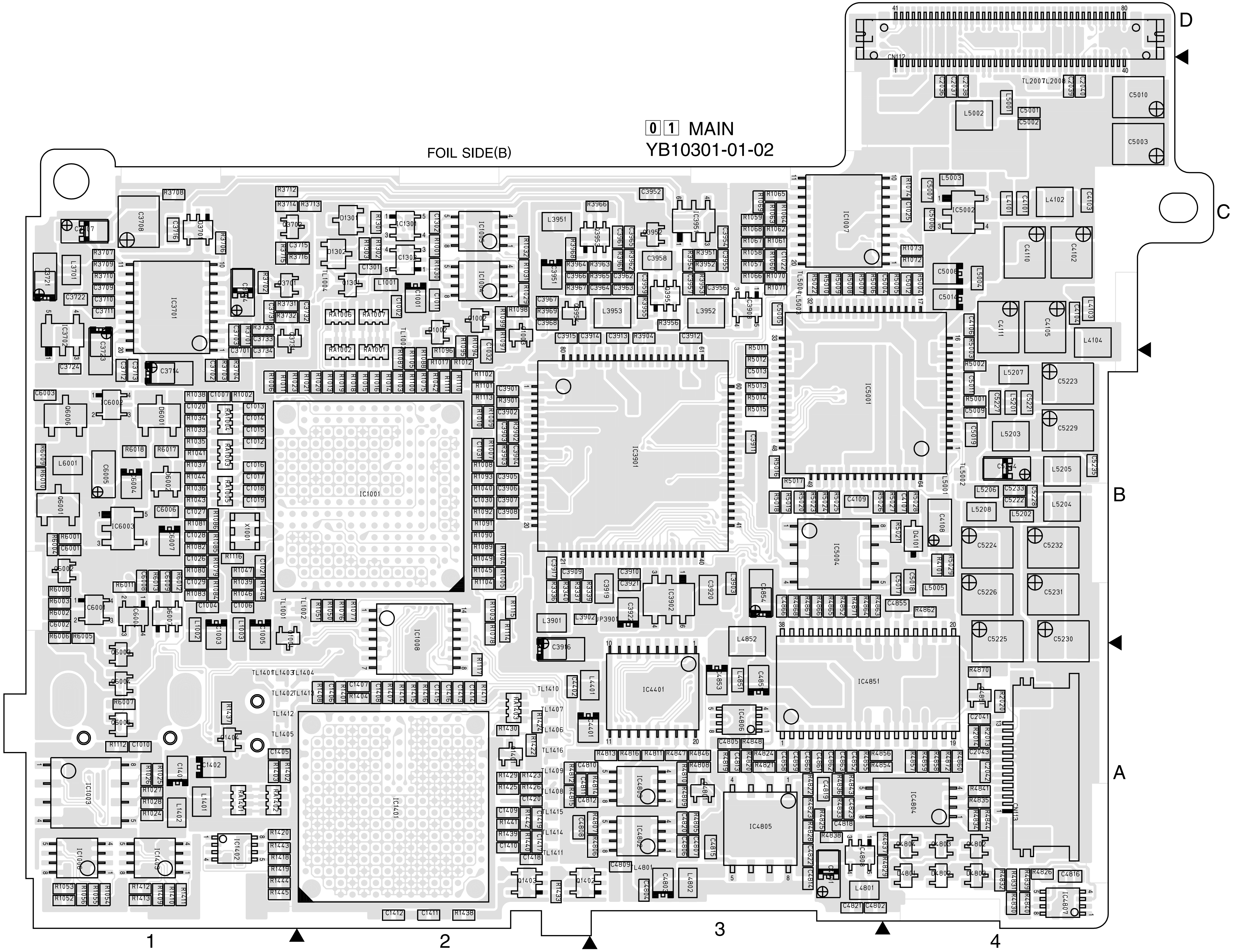

POWER OPE. UNIT
TO JACK
CN303
POWER_LED(3V) 1
GND 2
NC 3
NC 4
DIAL_PB 5
DIAL_OFF 6
DIAL_AUTO 7
DIAL_MANU 8
TRG_SW 9
GND 10
GND 11
POWER LED
POWER SWITCH
TRIG SW
0.5mm pitch
FPC Coonector


TO M.FOCUS
(OP BLOCK)
CN2413
GND 1
FOCUS_PB 2
GND 3
GND 4
FOCUS_PA 5
GND 6
FRONT FPC UNIT
TO
EJECT
CN2421
12 GND
11 GND
10 GND
9 FOCUS_PB
8 FOCUS_PA
7 REG_4.8V
6 REG_4.8V
5 IR_RMC
4 MENU_SET
3 MENU_2
2 MENU_1
1 NC
TO IR
(MIC UNIT)
CN2412
IR_VCC 1
IR_RMC 2
GND 3
R2411
47
C2411
0.1
TO
MENU SW UNIT
CN2411
NC 1
MENU_SET 2
MENU_2 3
MENU_1 4
GND 5
GND 6
to SW FPC


TO
DECK OPE.
CN2432
SUB OPE. UNIT
GND
BLANK
INDEX
PRINT
FRAME
GND
BLANK
INDEX
FRAME
PRINT

y201080001a_rev0

4.26 MAIN CIRCUIT BOARD


FOIL SIDE(B)
01 MAIN
YB10301-01-02
D
C
B
A
1
2
3
4
CN112
IC3701
IC1001
IC3901
IC5001
IC1007
IC1008
IC1401
IC4401
IC4851
IC4805
IC4804
IC5004
IC1003
IC1006
IC1402
IC1403
IC4807
IC6003
CN113

COMPONENT PARTS LOCATION GUIDE ＜MAIN＞

CAPACITOR

REF.NO.	LOCATION		
C1001	B	C	2C
C1002	B	C	2C
C1003	B	C	1B
C1004	B	C	1B
C1005	B	C	1B
C1006	B	C	1B
C1007	B	C	1B
C1008	A	C	2B
C1009	A	C	2C
C1010	B	C	1A
C1011	B	C	2C
C1012	B	C	1B
C1013	B	C	1B
C1014	B	C	1B
C1015	B	C	1B
C1016	B	C	1B
C1017	B	C	1B
C1018	B	C	1B
C1019	B	C	1B
C1020	B	C	1B
C1021	B	C	1B
C1022	B	C	3C
C1023	A	C	3C
C1024	A	C	3C
C1025	B	C	4C
C1026	B	C	1B
C1027	B	C	1B
C1028	B	C	1B
C1029	B	C	1B
C1030	B	C	2B
C1031	B	C	2B
C1032	B	C	2B
C1201	A	C	4D
C1202	A	C	4C
C1203	A	C	4D
C1204	A	C	4C
C1301	B	C	2C
C1302	B	C	2C
C1401	B	C	1A
C1402	B	C	1A
C1405	B	C	1A
C1406	B	C	2A
C1407	B	C	2A
C1408	B	C	2A
C1409	B	C	2A
C1410	B	C	2A
C1411	B	C	2A
C1412	B	C	2A
C1413	B	C	2A
C1414	B	C	2A
C1415	B	C	2A
C1416	B	C	2A
C1417	B	C	2A
C1418	B	C	2A
C1419	B	C	2A
C1420	B	C	2A
C2003	A	C	4B
C2004	A	C	4A
C2005	A	C	4A
C2006	A	C	4A
C2007	A	C	2A
C2008	A	C	2A
C2009	A	C	2A
C2010	A	C	2A
C2011	A	C	2A
C2012	A	C	1B
C2013	A	C	2B
C2014	A	C	1B
C2015	A	C	1B
C2016	A	C	1B
C2017	A	C	1B
C2018	A	C	1B
C2019	A	C	1B
C2020	A	C	1B
C2021	A	C	1B
C2022	A	C	1B
C2023	A	C	1B
C2024	A	C	1B
C2025	A	C	1B
C2026	A	C	1B
C2027	A	C	1B
C2028	A	C	1C
C2029	A	C	1C
C2030	A	C	1C
C2031	A	C	1C
C2032	A	C	2C
C2033	A	C	3C
C2034	A	C	3C
C2035	A	C	3C
C2036	B	C	4C
C2037	B	C	4C
C2038	B	C	4C
C2039	B	C	4C
C2040	B	C	4C
C2041	B	C	4A
C2042	B	C	4A
C2043	B	C	4A
C3002	A	C	2B
C3005	A	C	2B
C3006	A	C	2B
C3008	A	C	2B
C3009	A	C	2B
C3010	A	C	2B
C3012	A	C	3B
C3014	A	C	3B
C3015	A	C	3B
C3016	A	C	2B
C3017	A	C	1B
C3018	A	C	2B
C3019	A	C	1B
C3020	A	C	2B
C3021	A	C	2B
C3022	A	C	3A
C3023	A	C	3A
C3024	A	C	3B
C3025	A	C	3B
C3026	A	C	2A
C3027	A	C	2A
C3028	A	C	2A
C3029	A	C	2A
C3030	A	C	2A
C3031	A	C	2A
C3032	A	C	2B
C3033	A	C	2B
C3034	A	C	2B
C3035	A	C	2C
C3036	A	C	2A
C3037	A	C	2A
C3038	A	C	1B
C3039	A	C	1B
C3040	A	C	1B
C3041	A	C	1B
C3042	A	C	2A
C3043	A	C	2A
C3044	A	C	2B
C3045	A	C	2B
C3046	A	C	2C
C3047	A	C	2B
C3048	A	C	2B
C3052	A	C	2B
C3053	A	C	3B
C3318	A	C	2B
C3319	A	C	2B
C3320	A	C	2B
C3325	A	C	2B
C3326	A	C	2B
C3328	A	C	3A
C3329	A	C	3A
C3330	A	C	2B
C3331	A	C	3A
C3332	A	C	3A
C3701	B	C	1B
C3702	B	C	1B
C3703	B	C	1C
C3704	B	C	1C
C3707	B	C	1C
C3708	B	C	1C
C3709	B	C	1C
C3710	B	C	1C
C3711	B	C	1C
C3712	B	C	1B
C3713	B	C	1B
C3714	B	C	1B
C3715	B	C	2C
C3716	B	C	1C
C3721	B	C	1C
C3722	B	C	1C
C3723	B	C	1B
C3724	B	C	1B
C3731	B	C	1C
C3732	B	C	2C
C3733	B	C	1C
C3734	B	C	1B
C3901	B	C	2B
C3902	B	C	2B
C3903	B	C	2B
C3904	B	C	2B
C3905	B	C	2B
C3906	B	C	2B
C3907	B	C	2B
C3908	B	C	2B
C3909	B	C	2B
C3910	B	C	3B
C3911	B	C	3B
C3912	B	C	3C
C3913	B	C	3C
C3914	B	C	3C
C3915	B	C	2C
C3916	B	C	2A
C3917	B	C	2B
C3919	B	C	3B
C3920	B	C	3B
C3921	B	C	3B
C3922	B	C	3B
C3951	B	C	2C
C3952	B	C	3C
C3954	B	C	3C
C3955	B	C	3C
C3956	B	C	3C
C3957	B	C	3C
C3958	B	C	3C
C3959	B	C	3C
C3961	B	C	3C
C3962	B	C	3C
C3963	B	C	3C
C3964	B	C	3C
C3965	B	C	3C
C3966	B	C	2C
C3967	B	C	2C
C3968	B	C	2C
C4101	B	C	4C
C4102	B	C	4C
C4103	B	C	4C
C4104	B	C	4C
C4105	B	C	4C
C4106	B	C	4C
C4107	B	C	4B
C4108	B	C	4B
C4109	B	C	3B
C4110	B	C	4C
C4111	B	C	4C
C4201	A	C	3D
C4202	A	C	4D
C4203	A	C	4C
C4204	A	C	4C
C4205	A	C	4C
C4206	A	C	4C
C4207	A	C	4C
C4208	A	C	4C
C4209	A	C	4C
C4210	A	C	4C
C4211	A	C	4C
C4212	A	C	4C
C4213	A	C	4C
C4214	A	C	4C
C4215	A	C	4C
C4216	A	C	4C
C4217	A	C	4C
C4218	A	C	4B
C4219	A	C	4B
C4220	A	C	4B
C4221	A	C	4C
C4222	A	C	4C
C4223	A	C	4C
C4224	A	C	4C
C4225	A	C	4C
C4226	A	C	4C
C4301	A	C	4B
C4302	A	C	4B
C4303	A	C	4B
C4304	A	C	4B
C4306	A	C	2B
C4307	A	C	4B
C4308	A	C	4B
C4309	A	C	3B
C4310	A	C	4B
C4311	A	C	3B
C4312	A	C	4B
C4313	A	C	3B
C4315	A	C	3B
C4316	A	C	3B
C4317	A	C	3B
C4318	A	C	4B
C4319	A	C	3B
C4320	A	C	3B
C4321	A	C	4B
C4322	A	C	3B
C4323	A	C	4C
C4351	A	C	3B
C4352	A	C	3B
C4353	A	C	3B
C4354	A	C	3B
C4355	A	C	3C
C4357	A	C	3C
C4359	A	C	3B
C4361	A	C	3B
C4362	A	C	3B
C4363	A	C	3C
C4364	A	C	3C
C4365	A	C	3C
C4368	A	C	3C
C4369	A	C	3B
C4370	A	C	3B
C4401	B	C	2A
C4402	B	C	2A
C4801	B	C	3A
C4802	B	C	3A
C4803	B	C	3A
C4804	B	C	3A
C4805	B	C	3A
C4806	B	C	3A
C4807	B	C	3A
C4808	B	C	2A
C4809	B	C	3A
C4810	B	C	2A
C4811	B	C	2A
C4812	B	C	2A
C4813	B	C	3A
C4814	B	C	3A
C4815	B	C	3A
C4816	B	C	4A
C4818	B	C	3A
C4819	B	C	3A
C4820	B	C	3A
C4821	B	C	3A
C4822	B	C	3A
C4823	B	C	3A
C4851	B	C	3A
C4852	B	C	3A
C4853	B	C	3A
C4854	B	C	3B
C4855	B	C	4B
C4858	B	C	3A
C4859	B	C	3A
C4860	B	C	3A
C4861	B	C	3A
C4862	B	C	3A
C4863	B	C	3A
C4864	A	C	4A
C4865	A	C	4A
C4866	B	C	3B
C4901	A	C	3A
C4902	A	C	3A
C4903	A	C	4A
C4904	A	C	4A
C4905	A	C	4A
C4906	A	C	3A
C4907	A	C	4A
C4908	A	C	3A
C4909	A	C	3A
C4910	A	C	3A
C4911	A	C	3A
C4912	A	C	3A
C4913	A	C	3A
C4914	A	C	3A
C4915	A	C	3A
C4916	A	C	3A
C4917	A	C	3A
C4918	A	C	3A
C4919	A	C	3A
C4920	A	C	3A
C4921	A	C	4B
C4922	A	C	3A
C4923	A	C	4A
C5001	B	C	4C
C5002	B	C	4C
C5003	B	C	4C
C5004	B	C	4C
C5005	B	C	3C
C5006	B	C	4C
C5007	B	C	4C
C5008	B	C	4C
C5009	B	C	4B
C5010	B	C	4C
C5011	B	C	4B
C5012	B	C	4C
C5013	B	C	3B
C5014	B	C	4C
C5017	B	C	4B
C5018	B	C	4B
C5019	B	C	4B
C5221	B	C	4B
C5222	B	C	4B
C5223	B	C	4B
C5224	B	C	4B
C5225	B	C	4B
C5226	B	C	4B
C5227	B	C	4B
C5228	B	C	4B
C5229	B	C	4B
C5230	B	C	4B
C5231	B	C	4B
C5232	B	C	4B
C5233	B	C	4B
C5234	B	C	4B
C5235	B	C	4B
C6001	B	C	1B
C6002	B	C	1B
C6003	B	C	1B
C6004	B	C	1B
C6005	B	C	1B
C6006	B	C	1B
C6007	B	C	1B
C6008	B	C	1B
C6009	B	C	1B

CONNECTOR

REF.NO.	LOCATION		
CN101	A	C	4C
CN102	A	C	4B
CN103	A	C	4B
CN104	A	C	4A
CN105	A	C	4A
CN106	A	C	2A
CN107	A	C	1A
CN108	A	C	1B
CN109	A	C	1B
CN110	A	C	3C
CN111	A	C	1C
CN112	B	C	4C
CN113	B	C	4A

DIODE

REF.NO.	LOCATION		
D1002	B	C	2C
D1201	A	C	4C
D1301	B	C	2C
D1302	B	C	2C
D2001	A	C	1C
D2002	A	C	1C
D2003	A	C	1C
D2004	A	C	1C
D2005	A	C	4C
D3002	A	C	3B
D3301	A	C	3A
D3302	A	C	3A
D3701	B	C	1C
D4101	B	C	4B
D4201	A	C	4C
D4801	B	C	4A
D4802	B	C	4A
D4803	B	C	4A
D6001	B	C	1B
D6002	B	C	1B

IC

REF.NO.	LOCATION		
IC1001	B	C	2B
IC1002	A	C	2C
IC1003	B	C	1A
IC1004	B	C	2C
IC1005	B	C	2C
IC1006	B	C	1A
IC1007	B	C	3C
IC1008	B	C	2B
IC1201	A	C	4D
IC1301	B	C	2C
IC1302	B	C	2C
IC1401	B	C	2A
IC1402	B	C	1A
IC1403	B	C	1A
IC3001	A	C	2B
IC3002	A	C	2B
IC3302	A	C	2B
IC3701	B	C	1C
IC3702	B	C	1C
IC3901	B	C	3B
IC3902	B	C	3B
IC3903	B	C	3C
IC3951	B	C	3C
IC4201	A	C	4C
IC4202	A	C	4D
IC4301	A	C	3B
IC4302	A	C	4B
IC4401	B	C	3A
IC4802	B	C	3A
IC4803	B	C	3A
IC4804	B	C	4A
IC4805	B	C	3A
IC4806	B	C	3A
IC4807	B	C	4A
IC4808	B	C	3A
IC4851	B	C	3A
IC4901	A	C	4A
IC4902	A	C	3A
IC4903	A	C	3A
IC4904	A	C	4A
IC5001	B	C	3B
IC5002	B	C	4C
IC5004	B	C	3B
IC6001	B	C	1B
IC6002	B	C	1B
IC6003	B	C	1B
IC6004	B	C	1B

COIL

REF.NO.	LOCATION		
L1001	B	C	2C
L1002	B	C	1B
L1003	B	C	1B
L1004	A	C	3C
L1201	A	C	4C
L1401	B	C	1A
L1402	B	C	1A
L2001	A	C	3C
L3001	A	C	1B
L3002	A	C	2A
L3003	A	C	2A
L3004	A	C	1B
L3005	A	C	2C
L3006	A	C	2B
L3009	A	C	3B
L3305	A	C	2B
L3307	A	C	1A
L3308	A	C	1A
L3312	A	C	3A
L3313	A	C	3A
L3701	B	C	1C
L3901	B	C	2B
L3902	B	C	2B
L3903	B	C	3B
L3951	B	C	2C
L3952	B	C	3C
L3953	B	C	3C
L4101	B	C	4C
L4102	B	C	4C
L4103	B	C	4C
L4104	B	C	4C
L4201	A	C	4C
L4202	A	C	4C
L4203	A	C	4C
L4204	A	C	4C
L4301	A	C	4B
L4302	A	C	4B
L4303	A	C	4B
L4305	A	C	4B
L4306	A	C	3B
L4307	A	C	4C
L4351	A	C	3C
L4401	B	C	3A
L4801	B	C	3A
L4802	B	C	3A
L4851	B	C	3A
L4852	B	C	3B
L4853	A	C	4A
L4901	A	C	3A
L4902	A	C	4A
L5001	B	C	4C
L5002	B	C	4C
L5003	B	C	4C
L5004	B	C	4C
L5005	B	C	4B
L5201	B	C	4B
L5202	B	C	4B
L5203	B	C	4B
L5204	B	C	4B
L5205	B	C	4B
L5206	B	C	4B
L5207	B	C	4B
L5208	B	C	4B
L6001	B	C	1B

TRANSISTOR

REF.NO.	LOCATION		
Q1001	B	C	1B
Q1002	B	C	2C
Q1003	B	C	2C
Q1301	B	C	2C
Q1401	B	C	2A
Q1402	B	C	2A
Q1403	B	C	2A
Q1404	B	C	1A
Q2001	A	C	4B
Q2002	A	C	4B
Q3701	B	C	1C
Q3702	B	C	1C
Q3731	B	C	1C
Q3951	B	C	3C
Q3952	B	C	3C
Q3953	B	C	3C
Q3954	B	C	2C
Q4351	A	C	3B
Q4352	A	C	3B
Q4353	A	C	2B
Q4354	A	C	2C
Q4801	B	C	3A
Q4802	B	C	4A
Q4803	B	C	4A
Q4804	B	C	4A
Q4851	B	C	4A
Q4901	A	C	3A
Q6001	B	C	1B
Q6002	B	C	1B
Q6003	B	C	1A
Q6004	B	C	1A
Q6005	B	C	1A
Q6006	B	C	1B
Q6007	B	C	1B

RESISTOR

REF.NO.	LOCATION		
R1	A	C	4C
R2	A	C	4C
R3	A	C	4C
R4	A	C	4C
R5	A	C	4C
R1001	B	C	2C
R1002	B	C	1B
R1003	B	C	2B

REF.NO.	LOCATION		
R1004	B	C	2B
R1005	B	C	2B
R1006	B	C	1B
R1007	B	C	2B
R1008	B	C	2B
R1009	B	C	2B
R1010	B	C	2B
R1011	B	C	1B
R1012	B	C	2B
R1013	B	C	2B
R1014	B	C	2B
R1015	B	C	2B
R1016	B	C	2B
R1017	B	C	2B
R1018	B	C	2B
R1019	B	C	2B
R1020	B	C	2B
R1021	B	C	2B
R1023	B	C	1B
R1024	B	C	1A
R1025	B	C	1A
R1026	B	C	1A
R1027	B	C	1A
R1028	B	C	1A
R1029	B	C	2C
R1030	B	C	2C
R1031	B	C	2C
R1032	B	C	2C
R1033	B	C	1B
R1034	B	C	1B
R1035	B	C	1B
R1036	B	C	1B
R1037	B	C	1B
R1038	B	C	1B
R1039	B	C	1B
R1040	B	C	2B
R1041	B	C	1B
R1042	B	C	2B
R1043	B	C	1B
R1044	B	C	1B
R1045	B	C	2B
R1046	B	C	1B
R1047	B	C	1B
R1048	B	C	1B
R1049	B	C	2B
R1050	B	C	2B
R1051	B	C	2B
R1052	B	C	1A
R1053	B	C	1A
R1054	B	C	1A
R1055	B	C	1A
R1056	B	C	1A
R1057	B	C	3C
R1058	B	C	3C
R1059	B	C	3C
R1060	B	C	3C
R1061	B	C	3C
R1062	B	C	3C
R1063	B	C	3C
R1064	B	C	3C
R1065	B	C	3C
R1066	B	C	3C
R1067	B	C	3C
R1068	B	C	3C
R1069	B	C	3C
R1070	B	C	3C
R1071	B	C	3C
R1072	B	C	4C
R1073	B	C	4C
R1074	B	C	4C
R1075	B	C	2B
R1076	B	C	2B
R1077	B	C	2B
R1078	B	C	2B
R1079	B	C	1B
R1080	B	C	1B
R1081	B	C	1B
R1082	B	C	1B
R1083	B	C	1B
R1084	B	C	1B
R1085	B	C	1B
R1086	B	C	1B
R1087	B	C	2B
R1088	B	C	2B
R1089	B	C	2B
R1090	B	C	2B
R1091	B	C	2B
R1092	B	C	2B
R1093	B	C	2B
R1094	B	C	2C
R1095	B	C	2C
R1096	B	C	2B
R1097	B	C	2C
R1098	B	C	2C
R1099	B	C	2C
R1100	B	C	2B
R1101	B	C	2B
R1102	B	C	2B
R1103	B	C	2B
R1104	B	C	2B
R1105	B	C	2B
R1110	B	C	2B
R1111	B	C	2B
R1112	B	C	1A
R1113	B	C	2B
R1114	B	C	2B
R1115	B	C	2B
R1116	B	C	1B
R1117	B	C	2A
R1201	A	C	4D
R1202	A	C	4D
R1301	B	C	2C
R1302	B	C	2C
R1303	B	C	2C
R1401	B	C	2A
R1402	B	C	1A
R1403	B	C	1A
R1404	B	C	2A
R1407	B	C	2A
R1408	B	C	2A
R1409	B	C	1A
R1410	B	C	1A
R1411	B	C	1A
R1412	B	C	1A
R1413	B	C	1A
R1414	B	C	2A
R1415	B	C	2A
R1416	B	C	2A
R1417	B	C	2A
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JP3001	A	C	2C
JP3901	B	C	3B
PC08	A	C	5A
S1002	A	C	1A
TH3001	A	C	2B
TL1001	B	C	1B
TL1002	B	C	2B
TL1003	B	C	2C
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TL1415	B	C	2A
TL1416	B	C	2A
TL2001	A	C	4B
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TL2004	A	C	3A
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TL2007	B	C	4C
TL2008	B	C	4C
TL2009	A	C	4C
TL2010	A	C	1C
TL3002	A	C	2C
TL3005	A	C	2C
TL3006	A	C	2C
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TL3016	A	C	2A
TL3017	A	C	2A
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TL4801	B	C	3A
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TL5002	B	C	4B
TL5003	B	C	3C
TL5004	B	C	3C
X1001	B	C	1B
X1002	A	C	2C
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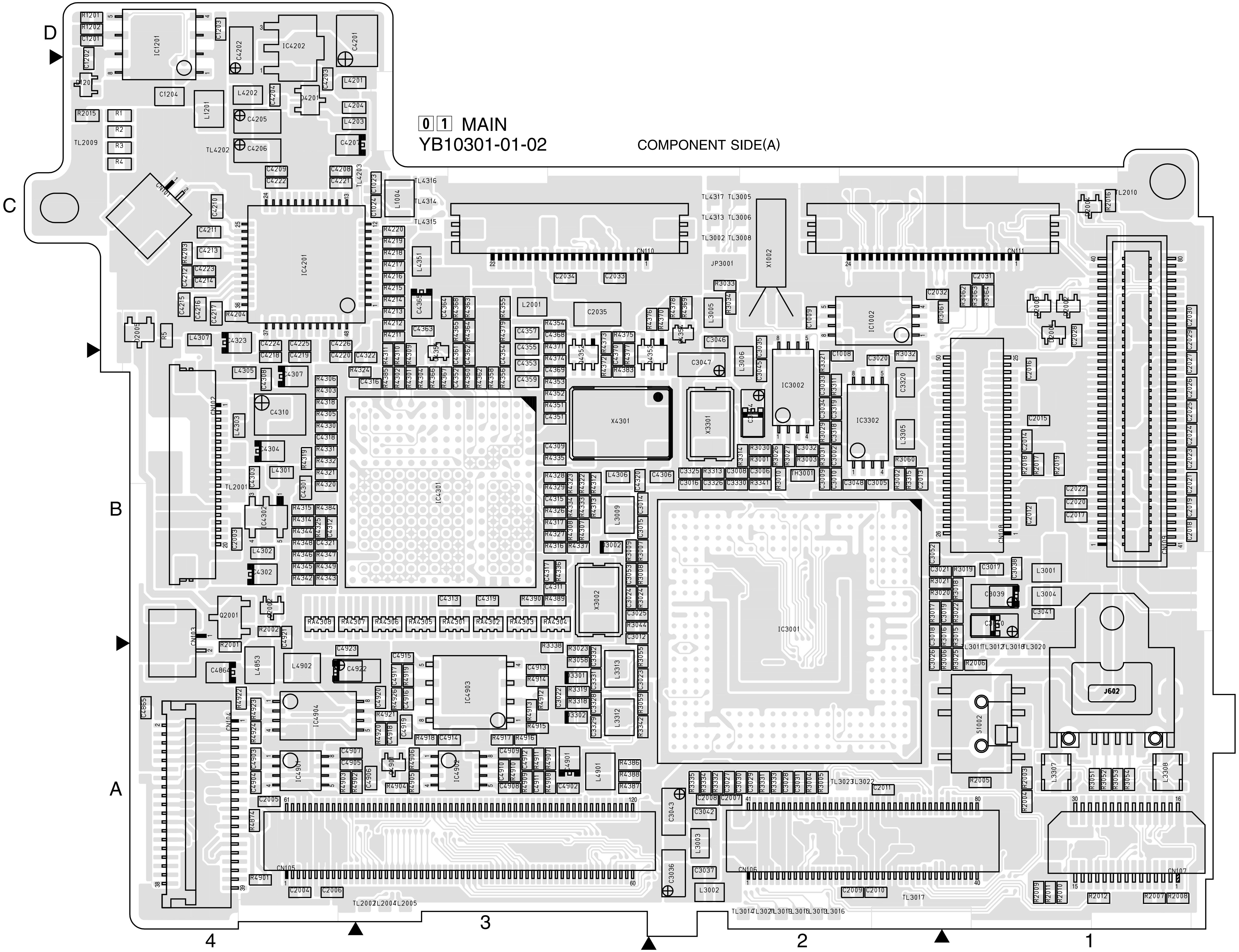
X4301	A	C	3B

01 MAIN

YB10301-01-02

COMPONENT SIDE(A)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IC3001
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IC4901
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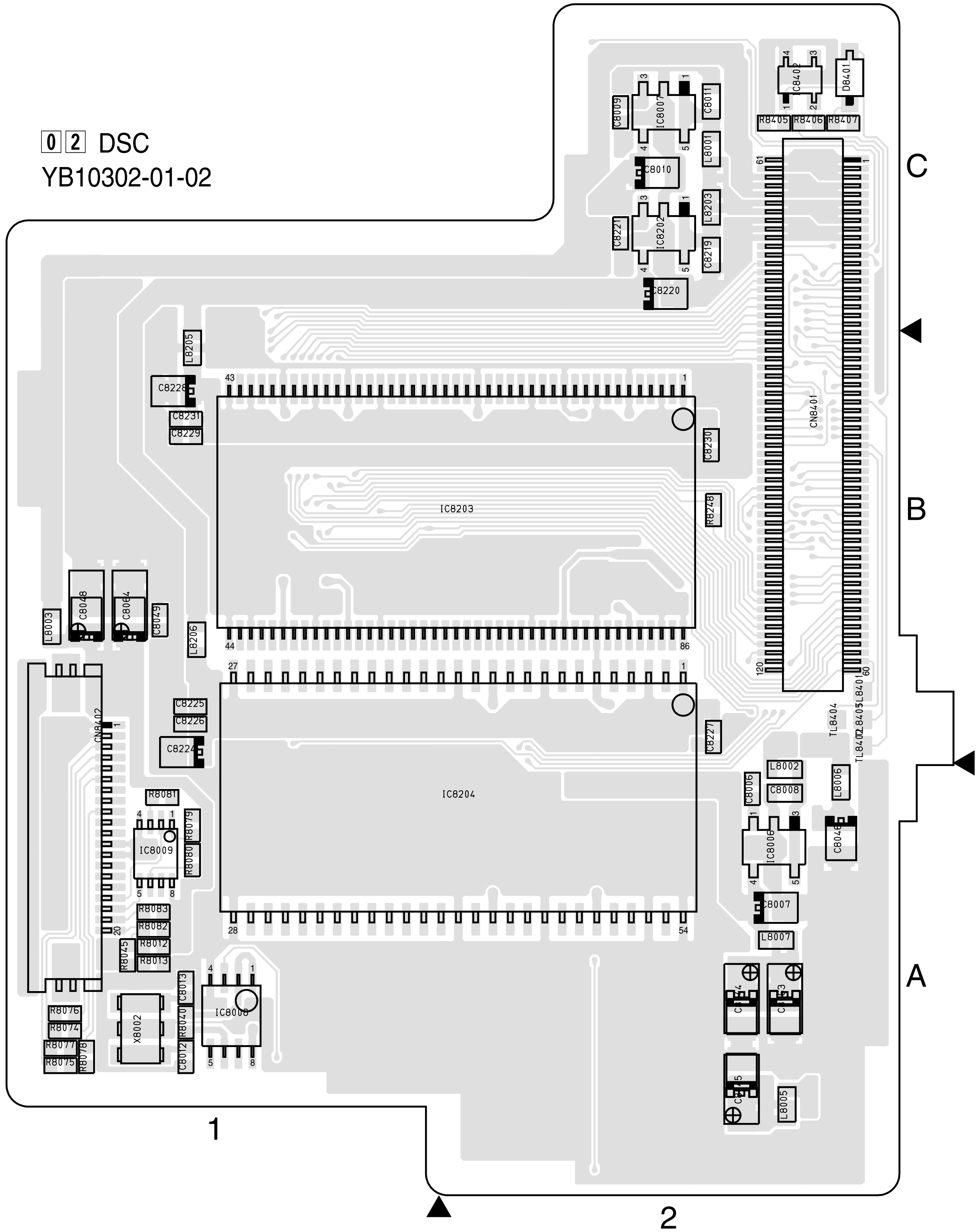
4.27 DSC CIRCUIT BOARD

FOIL SIDE(B)



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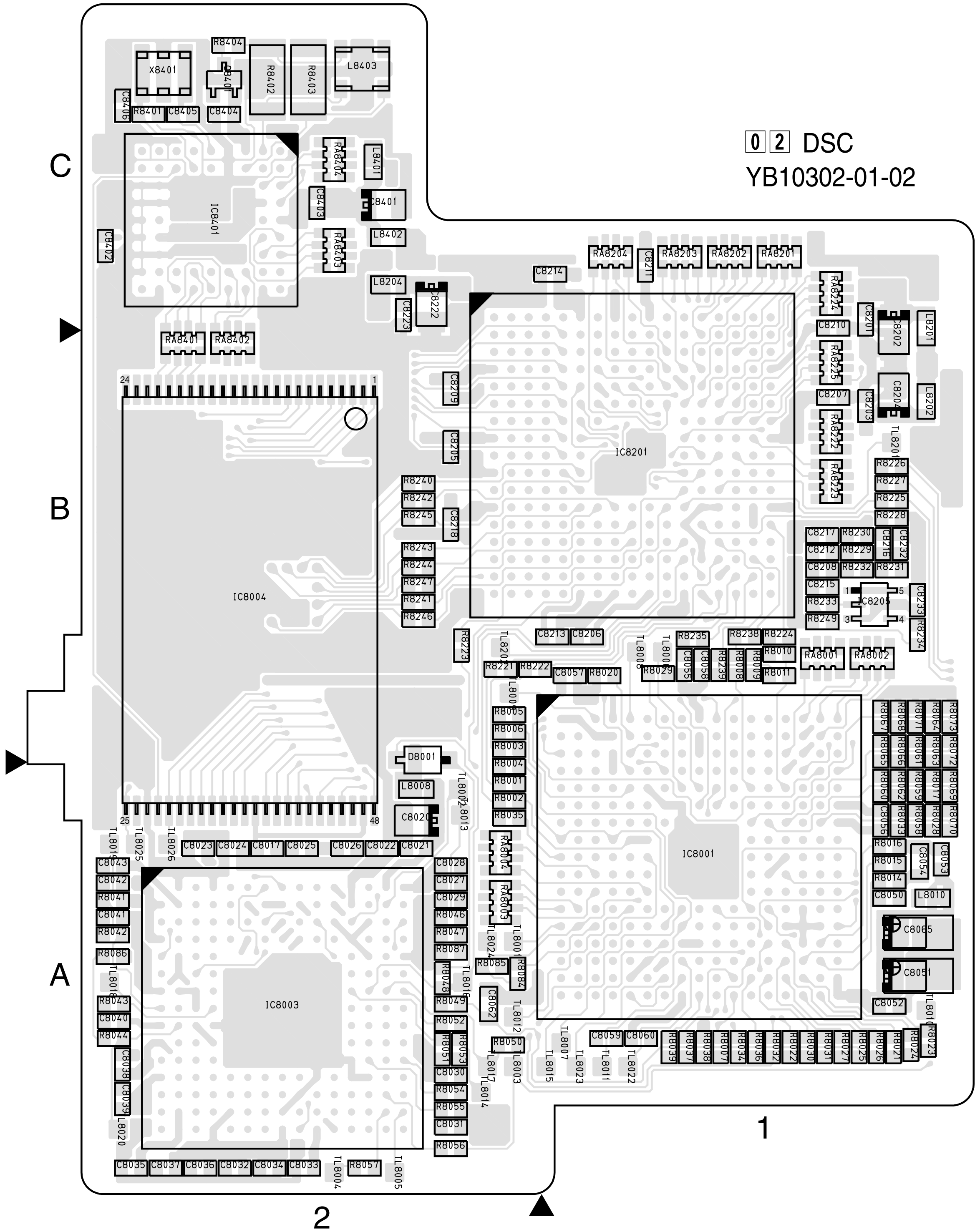

COMPONENT PARTS LOCATION GUIDE ＜DSC＞

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C8007	B	C	2A
C8008	B	C	2A
C8009	B	C	2C
C8010	B	C	2C
C8011	B	C	2C
C8012	B	C	1A
C8013	B	C	1A
C8017	A	C	2A
C8020	A	C	2A
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C8402	A	C	3C
C8403	A	C	2C
C8404	A	C	2C
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C8406	A	C	2C
CONNECTOR			
CN8401	B	C	2C
CN8402	B	C	1B
DIODE			
D8001	A	C	2B
D8401	B	C	2C
IC			
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IC8003	A	C	2A
IC8004	A	C	2B
IC8006	B	C	2A
IC8007	B	C	2C
IC8008	B	C	1A
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IC8201	A	C	1B
IC8202	B	C	2C
IC8203	B	C	2B
IC8204	B	C	2A
IC8205	A	C	1B
IC8401	A	C	2C
IC8402	B	C	2C
COIL			
L8001	B	C	2C
L8002	B	C	2A
L8003	B	C	1B
L8005	B	C	2A
L8006	B	C	2A
L8007	B	C	2A
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L8206	B	C	1B
L8401	A	C	2C
L8402	A	C	2C
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TRANSISTOR			
Q8401	A	C	2C
RESISTOER			
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R8002	A	C	2A
R8003	A	C	2B
R8004	A	C	2A
R8005	A	C	2B
R8006	A	C	2B
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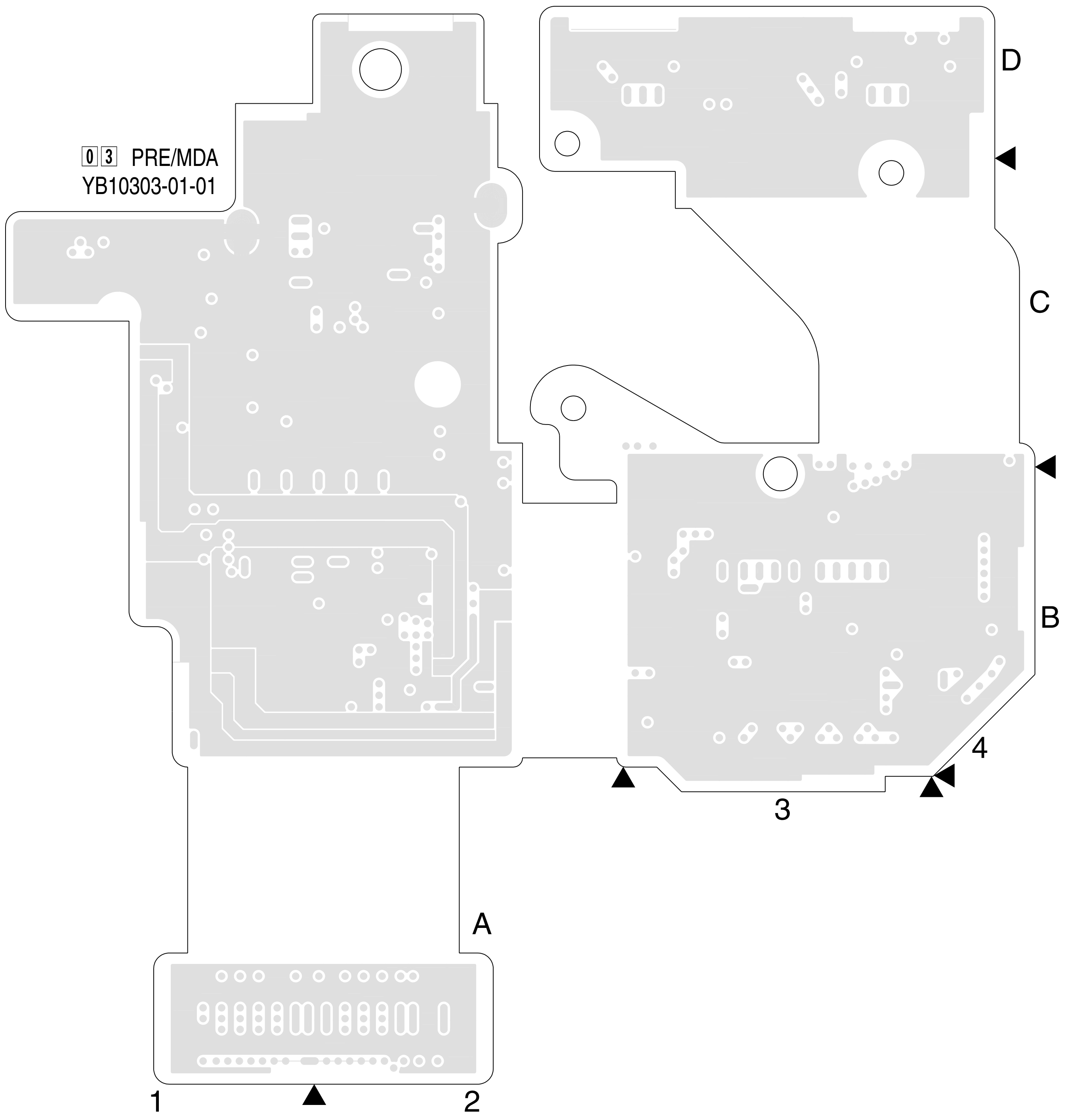
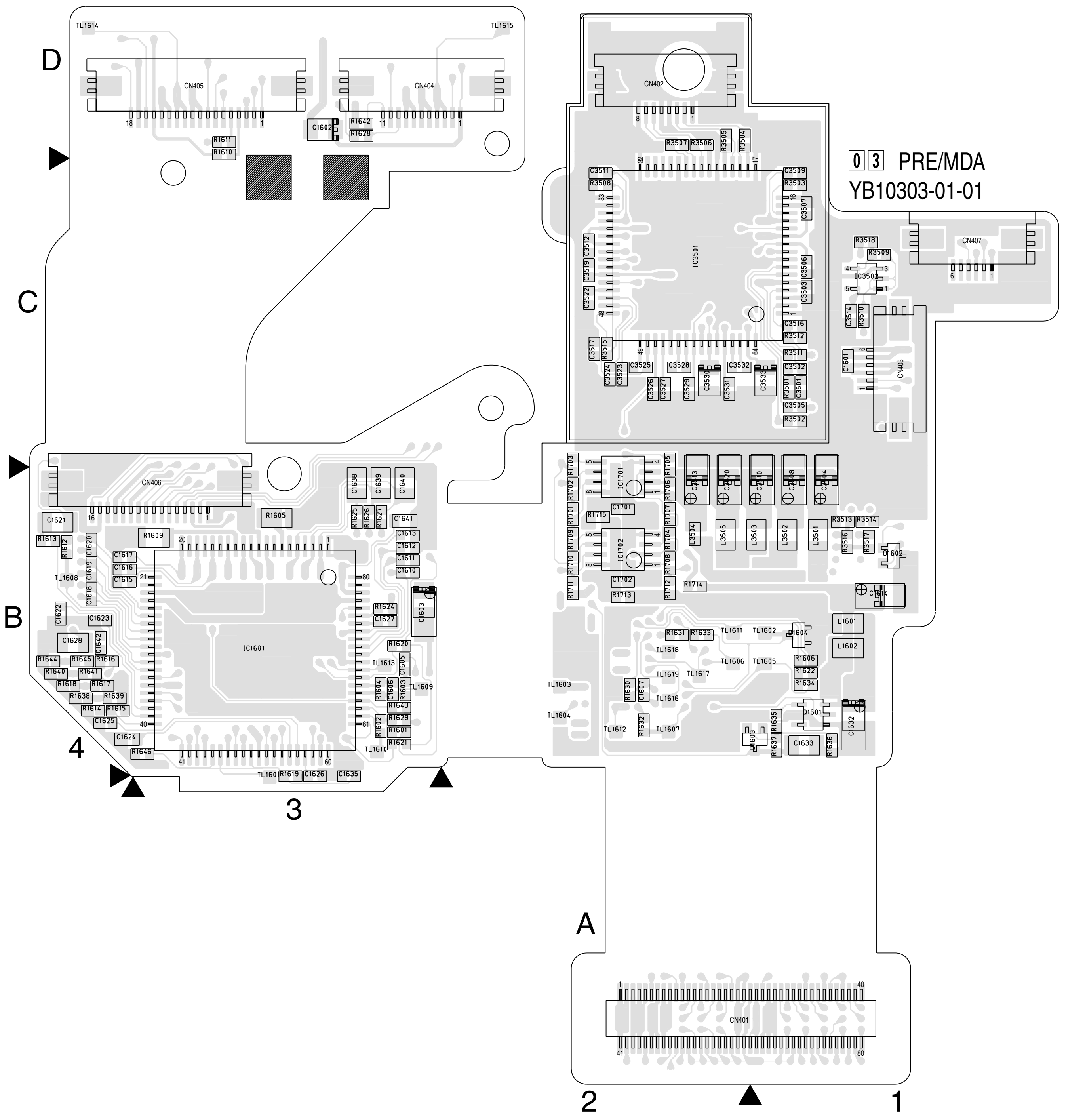
R8061	A	C	1B
R8062	A	C	1A
R8063	A	C	1B
R8064	A	C	1B
R8065	A	C	1B
R8066	A	C	1B
R8067	A	C	1B
R8068	A	C	1B
R8069	A	C	1A
R8070	A	C	1A
R8071	A	C	1B
R8072	A	C	1B
R8073	A	C	1B
R8074	B	C	1A
R8075	B	C	1A
R8076	B	C	1A
R8077	B	C	1A
R8078	B	C	1A
R8079	B	C	1A
R8080	B	C	1A
R8081	B	C	1A
R8082	B	C	1A
R8083	B	C	1A
R8084	A	C	2A
R8085	A	C	2A
R8086	A	C	2A
R8087	A	C	2A
R8221	A	C	2B
R8222	A	C	2B
R8223	A	C	2B
R8224	A	C	1B
R8225	A	C	1B
R8226	A	C	1B
R8227	A	C	1B
R8228	A	C	1B
R8229	A	C	1B
R8230	A	C	1B
R8231	A	C	1B
R8232	A	C	1B
R8233	A	C	1B
R8234	A	C	1B
R8235	A	C	1B
R8238	A	C	1B
R8239	A	C	1B
R8240	A	C	2B
R8241	A	C	2B
R8242	A	C	2B
R8243	A	C	2B
R8244	A	C	2B
R8245	A	C	2B
R8246	A	C	2B
R8247	A	C	2B
R8248	B	C	2B
R8249	A	C	1B
R8401	A	C	2C
R8402	A	C	2C
R8403	A	C	2C
R8404	A	C	2C
R8405	B	C	2C
R8406	B	C	2C
R8407	B	C	2C
RA8001	A	C	1B
RA8002	A	C	1B
RA8003	A	C	2A
RA8004	A	C	2A
RA8201	A	C	1C
RA8202	A	C	1C
RA8203	A	C	1C
RA8204	A	C	1C
RA8222	A	C	1B
RA8223	A	C	1B
RA8224	A	C	1C
RA8225	A	C	1B
RA8401	A	C	2B
RA8402	A	C	2B
RA8403	A	C	2C
RA8404	A	C	2C
OTHER			
TL8001	A	C	2A
TL8002	A	C	2A
TL8003	A	C	2A
TL8004	A	C	2A
TL8005	A	C	2A
TL8006	A	C	1B
TL8007	A	C	1A
TL8008	A	C	1B
TL8009	A	C	2B
TL8010	A	C	1A
TL8011	A	C	1A
TL8012	A	C	2A
TL8013	A	C	2A
TL8014	A	C	2A
TL8015	A	C	1A
TL8016	A	C	2A
TL8017	A	C	2A
TL8018	A	C	3A
TL8019	A	C	3A
TL8020	A	C	2A
TL8022	A	C	1A
TL8023	A	C	1A
TL8024	A	C	2A
TL8025	A	C	2A
TL8026	A	C	2A
TL8201	A	C	1B
TL8202	A	C	2B
TL8401	B	C	2B
TL8402	B	C	2B
TL8404	B	C	2B
TL8405	B	C	2B
X8002	B	C	1A
X8401	A	C	2C

4.28 PRE/MDA CIRCUIT BOARD

FOIL SIDE(B)



COMPONENT SIDE(A)

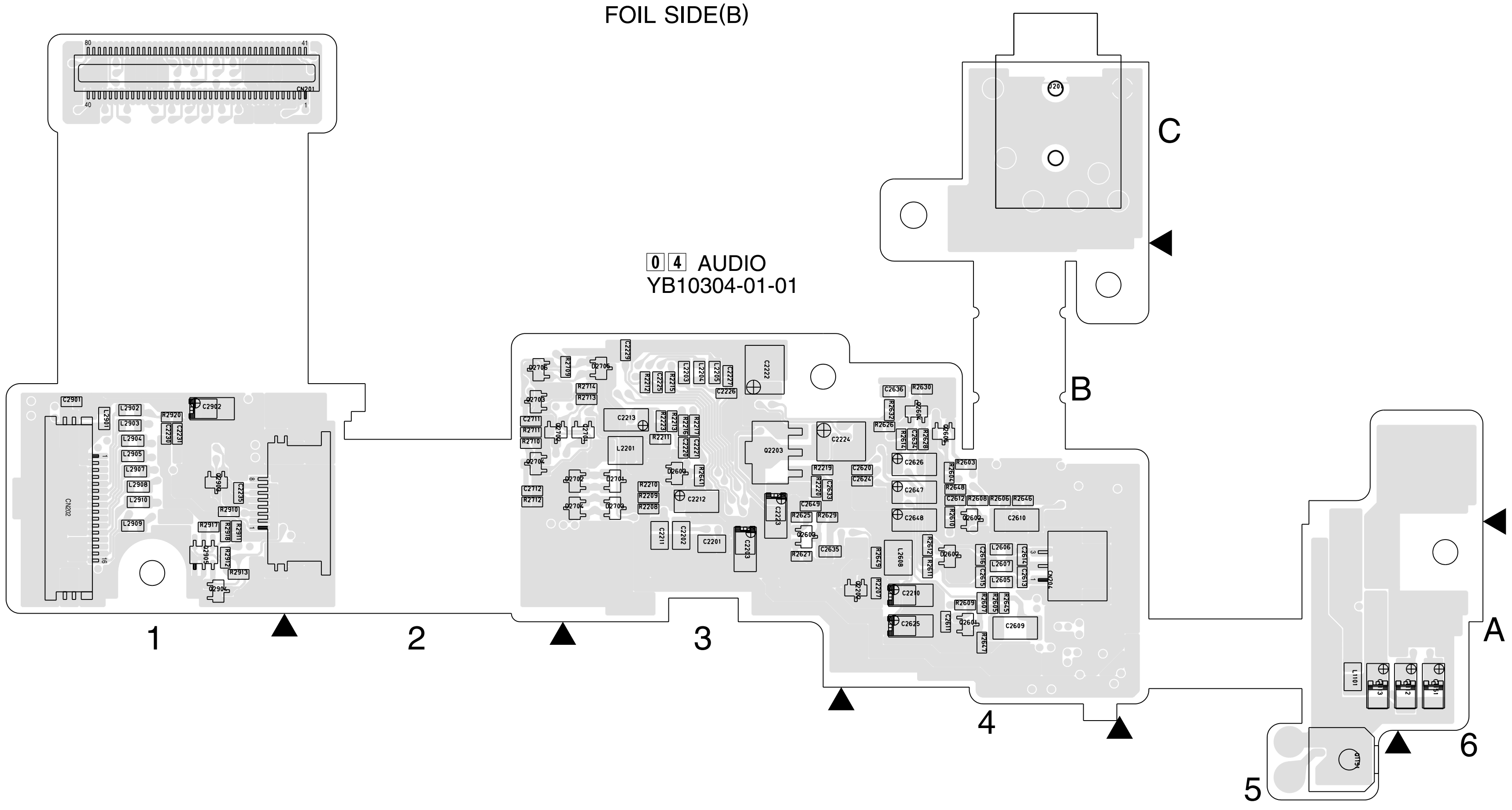


COMPONENT PARTS LOCATION GUIDE ＜PRE/MDA＞

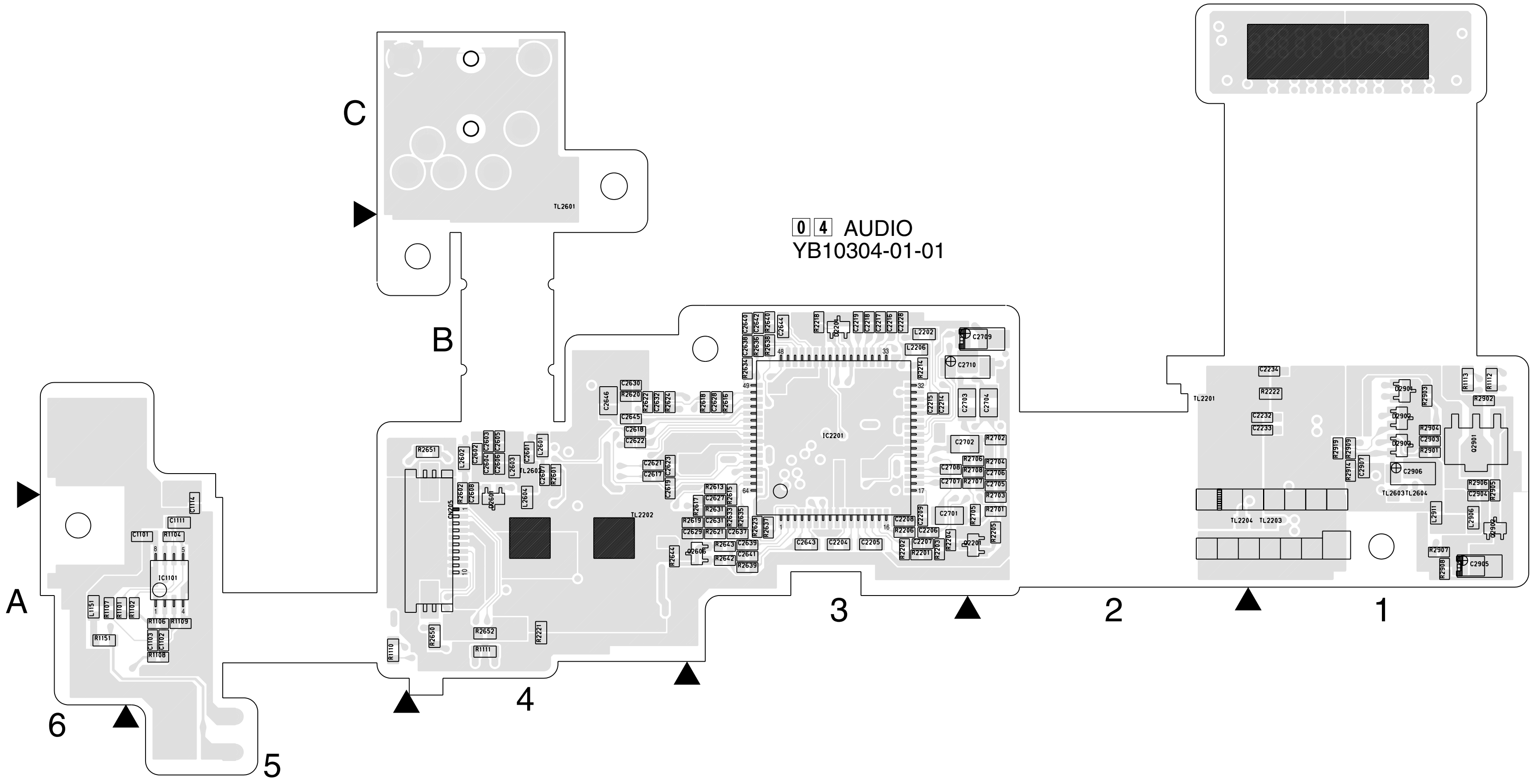
REF.NO.	LOCATION		
CAPACITOR			
C1601	A	C	1C
C1602	A	C	3D
C1603	A	C	3B
C1605	A	C	3B
C1606	A	C	3B
C1607	A	C	2B
C1610	A	C	3B
C1611	A	C	3B
C1612	A	C	3B
C1613	A	C	3B
C1614	A	C	1B
C1615	A	C	4B
C1616	A	C	4B
C1617	A	C	4B
C1618	A	C	4B
C1619	A	C	4B
C1620	A	C	4B
C1621	A	C	4B
C1622	A	C	4B
C1623	A	C	4B
C1624	A	C	4B
C1625	A	C	4B
C1626	A	C	3A
C1627	A	C	3B
C1628	A	C	4B
C1632	A	C	1B
C1633	A	C	1B
C1635	A	C	3A
C1638	A	C	3B
C1639	A	C	3B
C1640	A	C	3B
C1641	A	C	3B
C1642	A	C	4B
C1701	A	C	2B
C1702	A	C	2B
C3501	A	C	1C
C3502	A	C	1C
C3503	A	C	1C
C3504	A	C	1B
C3505	A	C	1C
C3506	A	C	1C
C3507	A	C	1C
C3508	A	C	1B
C3509	A	C	1C
C3510	A	C	1B
C3511	A	C	2C
C3512	A	C	2C
C3513	A	C	2B
C3514	A	C	1C
C3516	A	C	1C
C3517	A	C	2C
C3519	A	C	2C
C3520	A	C	2B
C3522	A	C	2C
C3523	A	C	2C
C3524	A	C	2C
C3525	A	C	2C
C3526	A	C	2C
C3527	A	C	2C
C3528	A	C	2C
C3529	A	C	2C
C3530	A	C	2C
C3531	A	C	2C
C3532	A	C	2C
C3533	A	C	1C
CONNECTOR			
CN401	A	C	2A
CN402	A	C	2D
CN403	A	C	1C
CN404	A	C	2D
CN405	A	C	3D
CN406	A	C	3B
CN407	A	C	1C
DIODE			
D1602	A	C	1B
D1603	A	C	1B
D1604	A	C	1B
IC			
IC1601	A	C	3B
IC1701	A	C	2B
IC1702	A	C	2B
IC3501	A	C	2C
IC3502	A	C	1C
COIL			
L1601	A	C	1B
L1602	A	C	1B
L3501	A	C	1B
L3502	A	C	1B
L3503	A	C	1B
L3504	A	C	2B
L3505	A	C	2B
TRANSISTOR			
Q1601	A	C	1B
RESISTOR			
R1601	A	C	3B
R1602	A	C	3B
R1603	A	C	3B
R1604	A	C	3B
R1605	A	C	3B
R1606	A	C	1B
R1609	A	C	3B
R1610	A	C	3D
R1611	A	C	3D
R1612	A	C	4B
R1613	A	C	4B
R1614	A	C	4B
R1615	A	C	4B
R1616	A	C	4B
R1617	A	C	4B
R1618	A	C	4B
R1619	A	C	3A
R1620	A	C	3B
R1621	A	C	3B
R1622	A	C	1B
R1624	A	C	3B
R1625	A	C	3B
R1626	A	C	3B
R1627	A	C	3B
R1628	A	C	3D
R1629	A	C	3B
R1630	A	C	2B
R1631	A	C	2B
R1632	A	C	2B
R1633	A	C	2B
R1634	A	C	1B
R1635	A	C	1B
R1636	A	C	1B
R1637	A	C	1B
R1638	A	C	4B
R1639	A	C	4B
R1640	A	C	4B
R1641	A	C	4B
R1642	A	C	3D
R1643	A	C	3B
R1644	A	C	4B
R1645	A	C	4B
R1646	A	C	3B
R1701	A	C	2B
R1702	A	C	2B
R1703	A	C	2C
R1704	A	C	2B
R1705	A	C	2C
R1706	A	C	2B
R1707	A	C	2B
R1708	A	C	2B
R1709	A	C	2B
R1710	A	C	2B
R1711	A	C	2B
R1712	A	C	2B
R1713	A	C	2B
R1714	A	C	2B
R1715	A	C	2B
R3501	A	C	1C
R3502	A	C	1C
R3503	A	C	1C
R3504	A	C	2D
R3505	A	C	2D
R3506	A	C	2D
R3507	A	C	2D
R3508	A	C	2C
R3509	A	C	1C
R3510	A	C	1C
R3511	A	C	1C
R3512	A	C	1C
R3513	A	C	1B
R3514	A	C	1B
R3515	A	C	2C
R3516	A	C	1B
R3517	A	C	1B
R3518	A	C	1C
OTHER			
PC04	A	C	1D
PC05	A	C	1D
TL1601	A	C	3A
TL1602	A	C	1B
TL1603	A	C	2B
TL1604	A	C	2B
TL1605	A	C	1B
TL1606	A	C	2B
TL1607	A	C	2B
TL1608	A	C	4B
TL1609	A	C	3B
TL1610	A	C	3B
TL1611	A	C	2B
TL1612	A	C	2B
TL1613	A	C	3B
TL1614	A	C	4D
TL1615	A	C	2D
TL1616	A	C	2B
TL1617	A	C	2B
TL1618	A	C	2B
TL1619	A	C	2B

4.29 AUDIO CIRCUIT BOARD

FOIL SIDE(B)



COMPONENT SIDE(A)



COMPONENT PARTS LOCATION GUIDE ＜AUDIO＞

REF.NO.	LOCATION		
CAPACITOR			
C1101	A	C	5A
C1102	A	C	5A
C1103	A	C	5A
C1111	A	C	5A
C1112	B	C	6A
C1113	B	C	5A
C1114	A	C	5A
C1151	B	C	6A
C2201	B	C	3A
C2202	B	C	3A
C2203	B	C	3A
C2204	A	C	3A
C2205	A	C	3A
C2206	A	C	3A
C2207	A	C	3A
C2208	A	C	3A
C2209	A	C	3A
C2210	B	C	4A
C2211	B	C	3A
C2212	B	C	3B
C2213	B	C	3B
C2214	A	C	3B
C2215	A	C	3B
C2216	A	C	3B
C2217	A	C	3B
C2218	A	C	3B
C2219	A	C	3B
C2220	B	C	3B
C2221	B	C	3B
C2222	B	C	3B
C2223	B	C	3B
C2224	B	C	4B
C2225	B	C	3B
C2226	B	C	3B
C2227	B	C	3B
C2228	A	C	3B
C2229	B	C	3B
C2230	B	C	1B
C2231	B	C	1B
C2232	A	C	1B
C2233	A	C	1B
C2234	A	C	1B
C2235	B	C	1B
C2601	A	C	4B
C2602	A	C	4B
C2603	A	C	4B
C2604	A	C	4B
C2605	A	C	4B
C2606	A	C	4B
C2607	A	C	4B
C2608	A	C	4B
C2609	B	C	4A
C2610	B	C	4B
C2611	B	C	4A
C2612	B	C	4B
C2613	B	C	4A
C2614	B	C	4A
C2615	B	C	4A
C2616	B	C	4A
C2617	A	C	4B
C2618	A	C	4B
C2619	A	C	4B
C2620	B	C	4B
C2621	A	C	4B
C2622	A	C	4B
C2623	A	C	4B
C2624	B	C	4B
C2625	B	C	4A
C2626	B	C	4B
C2627	A	C	3A
C2628	A	C	3B
C2629	A	C	3A
C2630	A	C	4B
C2631	A	C	3A
C2632	A	C	4B
C2633	B	C	3B
C2634	B	C	4B
C2635	B	C	3A
C2636	B	C	4B
C2637	A	C	3A
C2638	A	C	3B
C2639	A	C	3A
C2640	A	C	3B
C2641	A	C	3A
C2642	A	C	3B
C2643	A	C	3A
C2644	A	C	3B
C2645	A	C	4B
C2646	A	C	4B
C2647	B	C	4B
C2648	B	C	4B
C2649	B	C	3B
C2701	A	C	3A
C2702	A	C	3B
C2703	A	C	3B
C2704	A	C	2B
C2705	A	C	2B
C2706	A	C	2B
C2707	A	C	3B
C2708	A	C	3B
C2709	A	C	2B
C2710	A	C	3B
C2711	B	C	2B
C2712	B	C	2B
C2901	B	C	1B
C2902	B	C	1B
C2903	A	C	1B
C2904	A	C	1A
C2905	A	C	1A
C2906	A	C	1B
C2907	A	C	1B
CONNECTOR			
CN201	B	C	2C
CN202	B	C	1B
CN203	B	C	1A
CN204	B	C	4A
CN205	A	C	4A
DIODE			
D2201	A	C	3B
D2601	A	C	4A
D2602	B	C	4A
D2603	B	C	3B
D2701	B	C	3B
D2702	B	C	3B
D2703	B	C	3B
D2704	B	C	3B
D2705	B	C	3B
D2706	B	C	2B
D2901	A	C	1B
D2902	A	C	1B
D2903	A	C	1B
IC			
IC1101	A	C	5A
IC2201	A	C	3B
COIL			
L1101	B	C	5A
L1151	A	C	6A
L2201	B	C	3B
L2202	A	C	3B
L2203	B	C	3B
L2204	B	C	3B
L2205	B	C	3B
L2206	A	C	3B
L2601	A	C	4B
L2602	A	C	4B
L2603	A	C	4B
L2604	A	C	4A
L2605	B	C	4A
L2606	B	C	4A
L2607	B	C	4A
L2608	B	C	4A
L2901	B	C	1B
L2902	B	C	1B
L2903	B	C	1B
L2904	B	C	1B
L2905	B	C	1B
L2906	A	C	1A
L2907	B	C	1B
L2908	B	C	1B
L2909	B	C	1A
L2910	B	C	1B
L2911	A	C	1A
TRANSISTOR			
Q1151	A	D	5A
Q2201	A	C	2A
Q2202	B	C	4A
Q2203	B	C	3B
Q2601	B	C	4A
Q2602	B	C	4B
Q2603	B	C	3A
Q2604	B	C	4B
Q2605	B	C	4B
Q2606	A	C	3A
Q2701	B	C	3B
Q2702	B	C	2B
Q2703	B	C	2B
Q2704	B	C	2B
Q2901	A	C	1B
Q2902	A	C	1A
Q2903	B	C	1B
Q2904	B	C	1A
Q2905	B	C	1A
RESISTOR			
R1101	A	C	6A
R1102	A	C	5A
R1104	A	C	5A
R1106	A	C	5A
R1107	A	C	6A
R1108	A	C	5A
R1109	A	C	5A
R1110	A	C	5A
R1111	A	C	4A
R1112	A	C	1B
R1113	A	C	1B
R1151	A	C	6A
R2201	A	C	3A
R2202	A	C	3A
R2203	A	C	3A
R2204	A	C	3A
R2205	A	C	2A
R2206	A	C	3A
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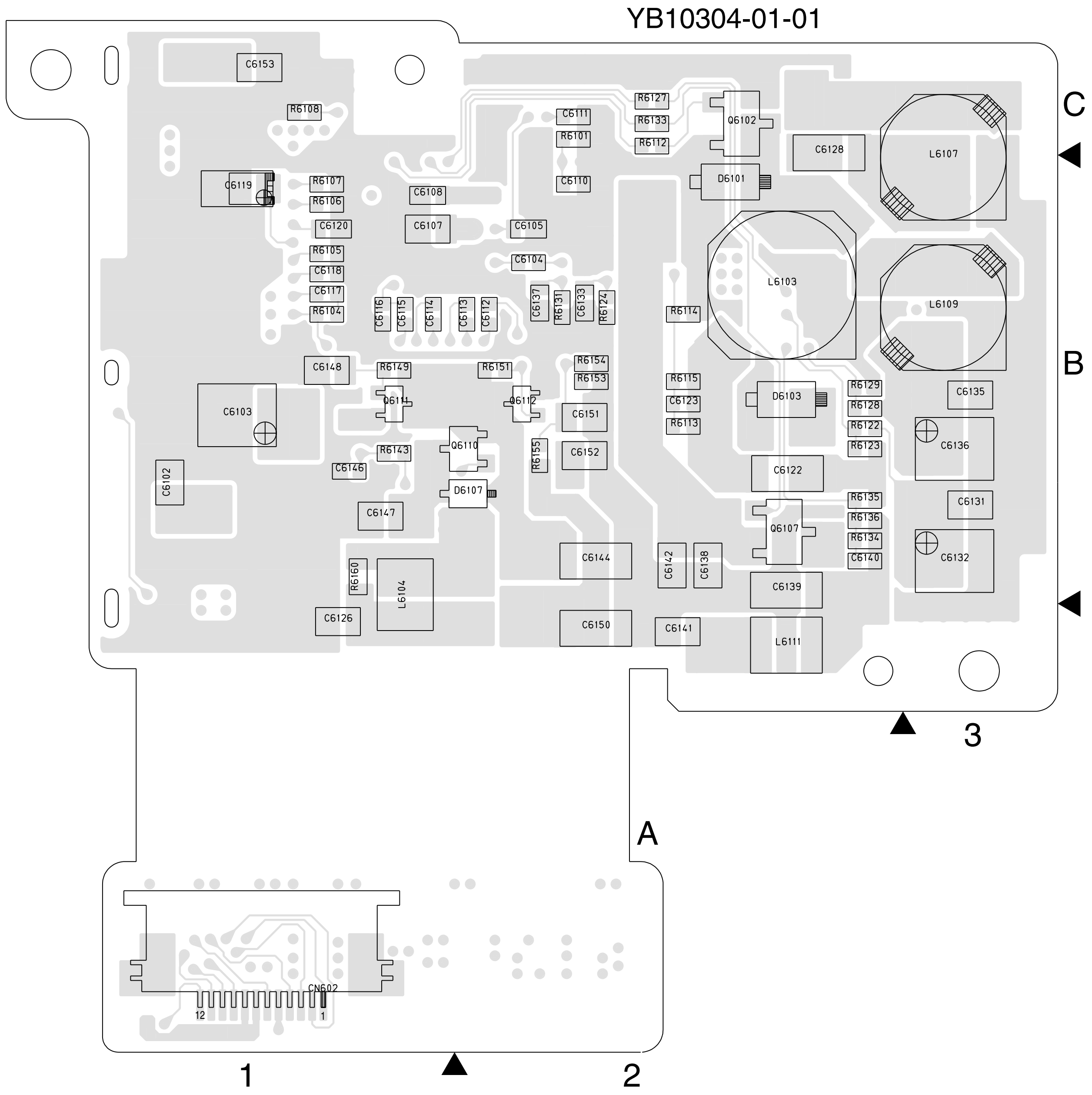
R2208	B	C	3B
R2209	B	C	3B
R2210	B	C	3B
R2211	B	C	3B
R2212	B	C	3B
R2213	B	C	3B
R2214	A	C	3B
R2215	B	C	3B
R2216	B	C	3B
R2217	B	C	3B
R2218	A	C	3B
R2219	B	C	3B
R2220	B	C	3B
R2221	A	C	4A
R2222	A	C	1B
R2223	B	C	3B
R2601	A	C	4B
R2602	A	C	4B
R2603	B	C	4B
R2604	B	C	4B
R2605	B	C	4A
R2606	B	C	4B
R2607	B	C	4A
R2608	B	C	4B
R2609	B	C	4A
R2610	B	C	4B
R2611	B	C	4A
R2612	B	C	4A
R2613	A	C	3B
R2614	B	C	4B
R2615	A	C	3B
R2616	A	C	3B
R2617	A	C	3A
R2618	A	C	3B
R2619	A	C	3A
R2620	A	C	4B
R2621	A	C	3A
R2622	A	C	4B
R2623	A	C	3A
R2624	A	C	4B
R2625	B	C	3B
R2626	B	C	4B
R2627	B	C	3A
R2628	B	C	4B
R2629	B	C	3B
R2630	B	C	4B
R2631	A	C	3A
R2632	B	C	4B
R2633	A	C	3A
R2634	A	C	3B
R2635	A	C	3A
R2636	A	C	3B
R2637	A	C	3A
R2638	A	C	3B
R2639	A	C	3A
R2640	A	C	3B
R2641	B	C	3B
R2642	A	C	3A
R2643	A	C	3A
R2644	A	C	4A
R2645	B	C	4A
R2646	B	C	4B
R2647	B	C	4A
R2648	B	C	4B
R2649	B	C	4A
R2650	A	C	4A
R2651	A	C	4B
R2652	A	C	4A
R2701	A	C	2A
R2702	A	C	2B
R2703	A	C	2A
R2704	A	C	2B
R2705	A	C	2A
R2706	A	C	2B
R2707	A	C	2B
R2708	A	C	2B
R2709	B	C	3B
R2710	B	C	2B
R2711	B	C	2B
R2712	B	C	2B
R2713	B	C	3B
R2714	B	C	3B
R2901	A	C	1B
R2902	A	C	1B
R2903	A	C	1B
R2904	A	C	1B
R2905	A	C	1B
R2906	A	C	1B
R2907	A	C	1A
R2908	A	C	1A
R2909	A	C	1B
R2910	B	C	1B
R2911	B	C	1A
R2912	B	C	1A
R2913	B	C	1A
R2914	A	C	1B
R2917	B	C	1A
R2918	B	C	1A
R2919	A	C	1B
R2920	B	C	1B
OTHER			
J201	A	D	4C
TL2201	A	C	2B
TL2202	A	C	4A
TL2203	A	C	1A
TL2204	A	C	2A
TL2601	A	C	4C
TL2602	A	C	4B
TL2603	A	C	1A
TL2604	A	C	1A

4.30 REG CIRCUIT BOARD

FOIL SIDE(B)


05 REG
YB10304-01-01
C
B
A
1
2
3
C6153
R6108
C6119
R6107
R6106
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R6105
C6118
C6117
R6104
C6108
C6107
C6105
C6104
C6116
C6115
C6114
C6113
C6112
C6137
R6131
C6133
R6124
C6111
R6101
C6110
R6127
R6133
R6112
Q6102
D6101
C6128
L6107
L6103
L6109
R6114
C6148
R6149
Q6111
R6151
Q6112
R6154
R6153
C6151
C6152
C6103
R6143
Q6110
D6107
R6155
C6146
C6102
C6147
R6115
C6123
R6113
D6103
R6129
R6128
R6122
R6123
C6135
C6136
C6122
Q6107
R6135
R6136
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C6140
C6131
C6132
C6144
C6142
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C6126
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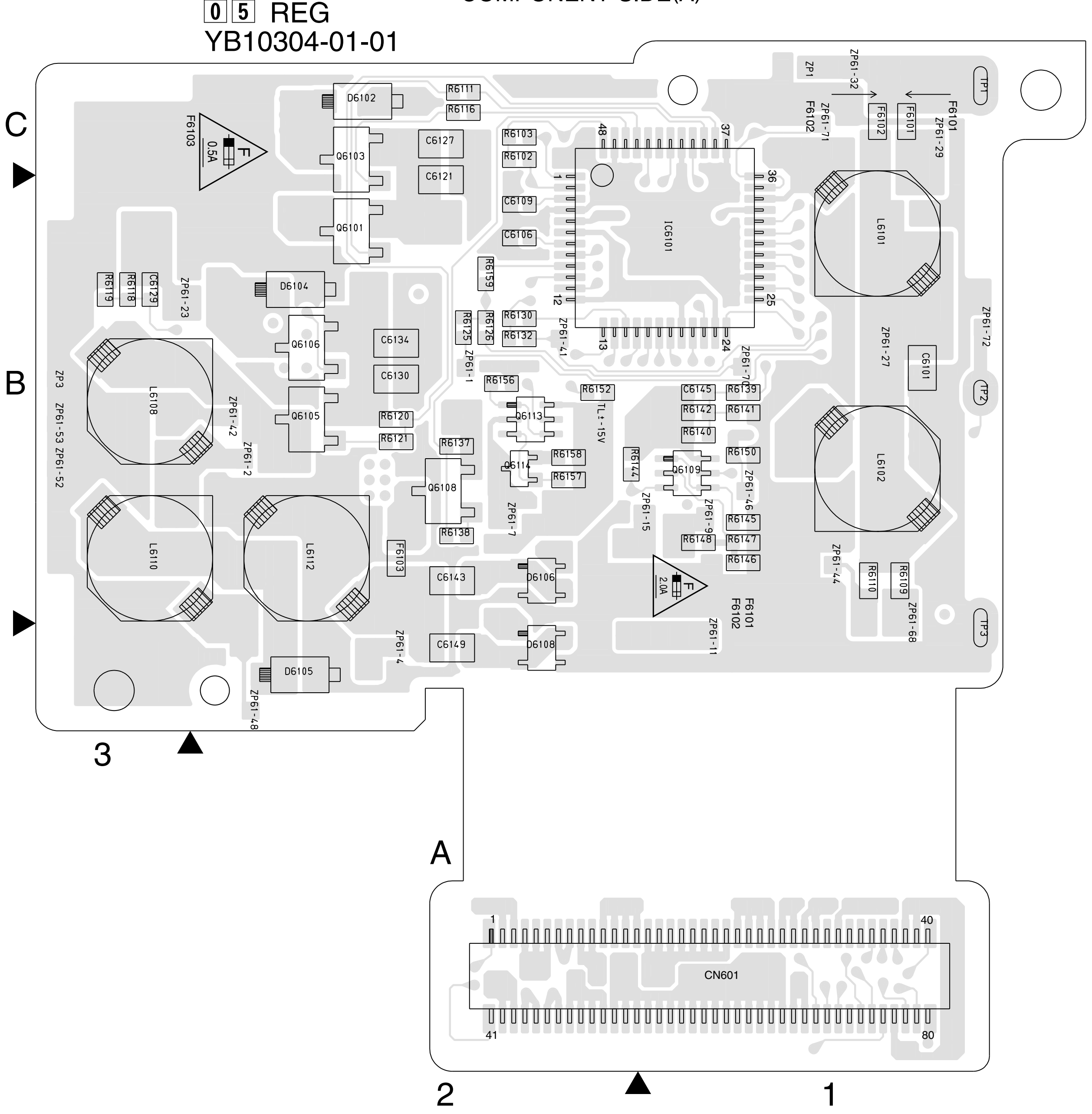
C6141
L6111
CN602
12
1

COMPONENT SIDE(A)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YB10304-01-01
C
B
A
2
1
3
D6102
R6111
R6116
F6103
F 0.5A
Q6103
C6127
C6121
R6103
R6102
48
37
1
36
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24
25
IC6101
Q6101
C6109
C6106
L6101
L6102
R6119
R6118
C6129
ZP61-23
D6104
R6159
R6125
R6126
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R6132
ZP61-41
ZP61-1
Q6106
C6134
C6130
L6108
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ZP61-42
ZP61-2
Q6105
R6120
R6121
R6156
Q6113
R6152
TL-15V
C6145
R6139
R6142
R6141
R6140
R6150
R6137
Q6114
R6158
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Q6109
ZP61-46
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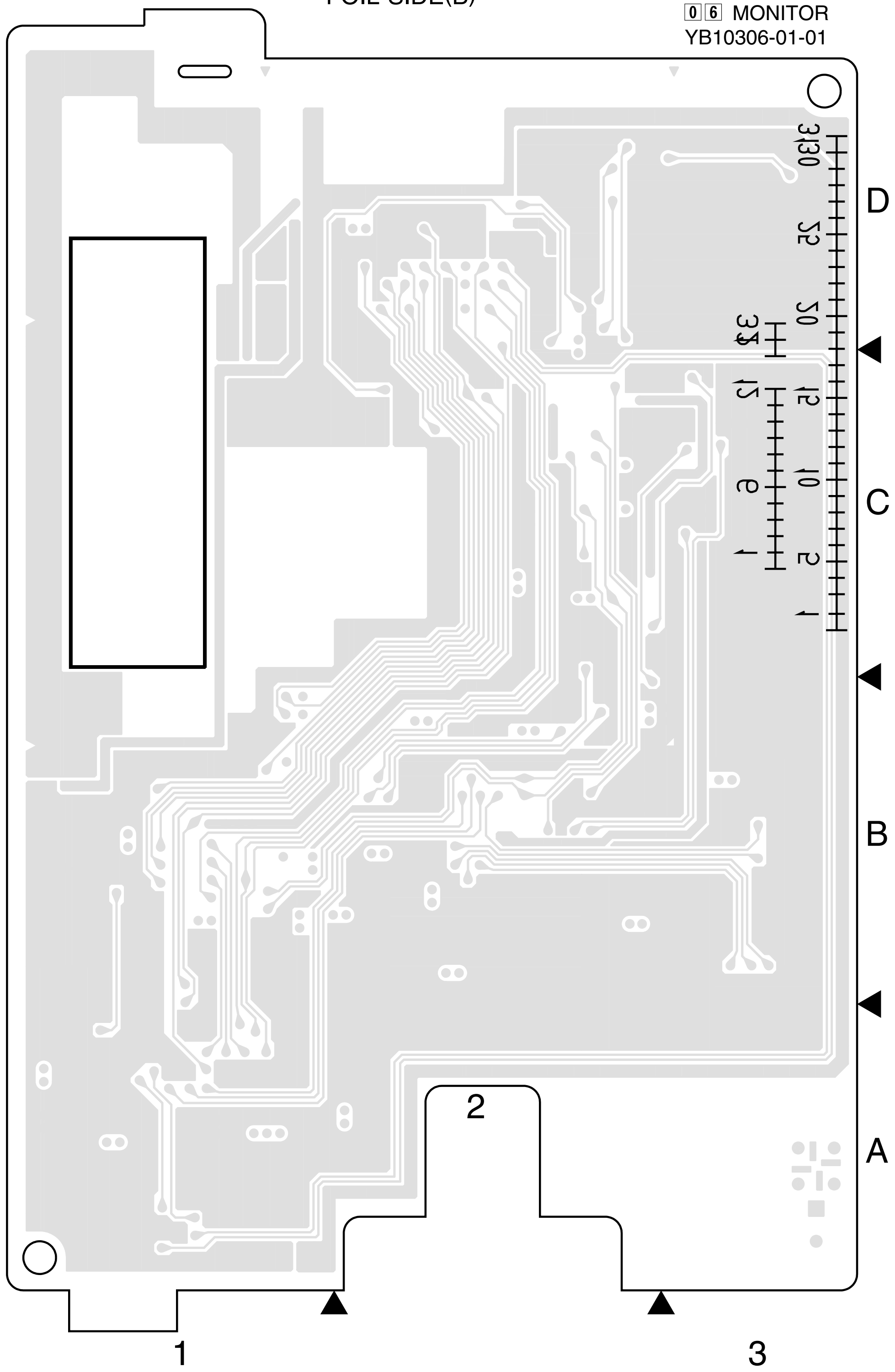
R6145
R6148
R6147
R6146
L6110
L6112
R6138
ZP61-7
C6143
D6106
F 2.0A
F6101
F6102
ZP61-11
C6149
D6108
D6105
ZP61-4
ZP61-48
R6110
R6109
ZP61-68
ZP61-44
ZP61-27
C6101
ZP61-72
TP1
TP2
TP3
ZP1
ZP61-32
ZP61-71
ZP61-29
CN601
40
41
80

COMPONENT PARTS LOCATION GUIDE <REG>

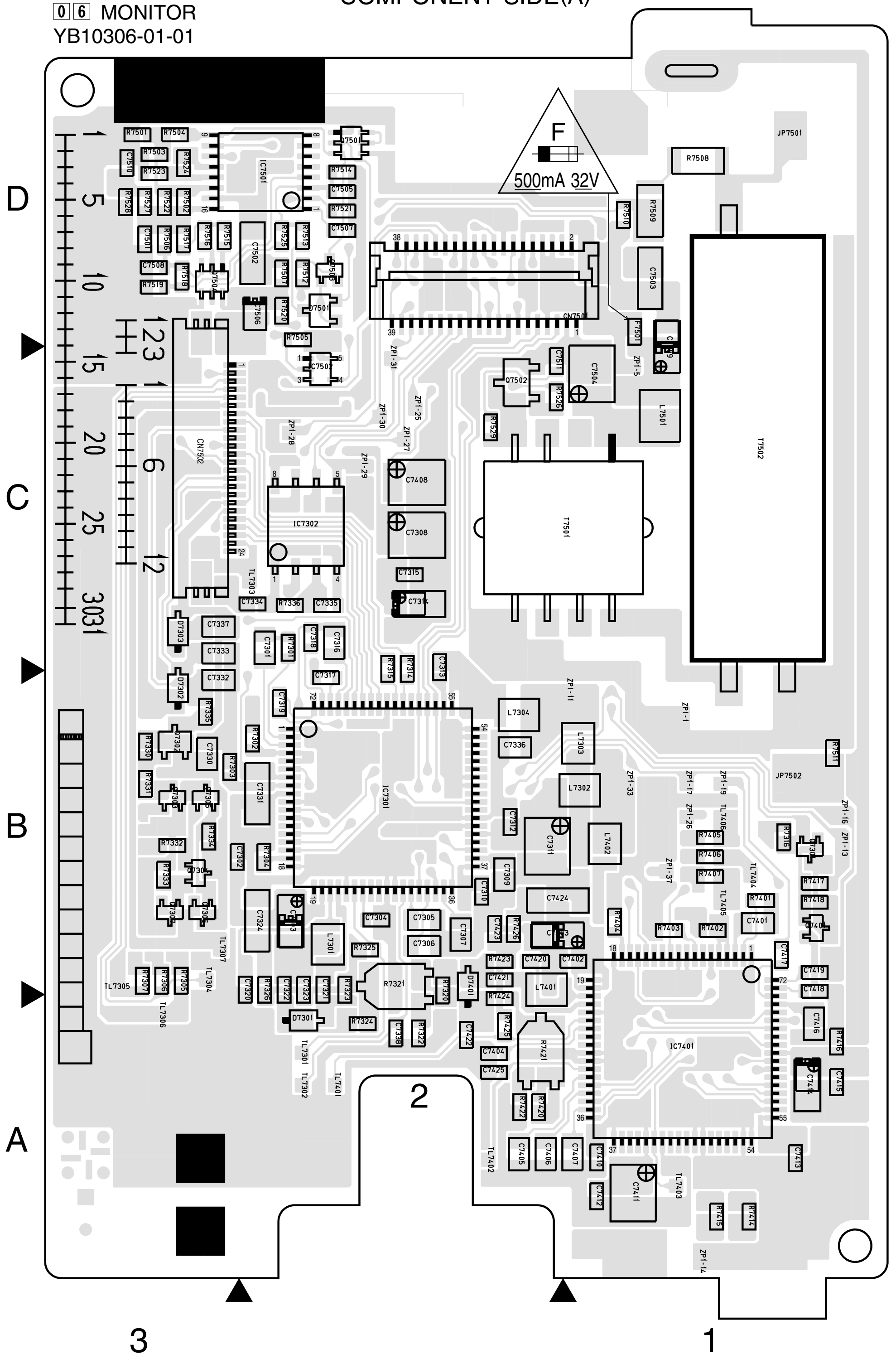
REF.NO.	LOCATION		
CAPACITOR			
C2205	A	C	4A
C2206	A	C	4A
C2207	A	C	4A
C2208	A	C	4A
C2209	A	C	4A
C2211	B	C	4A
C2213	B	C	4A
C2214	A	C	4A
C2215	A	C	4A
C2216	A	C	5A
C2217	A	C	5A
C2218	A	C	5A
C2225	B	C	4A
C2228	A	C	5A
C2229	B	C	5A
C2230	B	C	4B
C2231	B	C	4B
C2232	A	C	4B
C2233	A	C	4B
C2234	A	C	4B
C2235	B	C	4B
C2701	A	C	4A
C2702	A	C	4A
C2703	A	C	4A
C2704	A	C	4A
C2705	A	C	4A
C2706	A	C	4A
C2707	A	C	4A
C2708	A	C	4A
C2709	A	C	4A
C2710	A	C	4A
C2711	B	C	4A
C2712	B	C	4A
C2901	B	C	4C
C2902	B	C	4B
C2903	A	C	4C
C2904	A	C	4C
C2905	A	C	4C
C2906	A	C	4B
C2907	A	C	4B
C6101	A	C	1B
C6102	B	C	1B
C6103	B	C	1B
C6104	B	C	2B
C6105	B	C	2B
C6106	A	C	2B
C6107	B	C	1B
C6108	B	C	1B
C6109	A	C	2B
C6110	B	C	2B
C6111	B	C	2C
C6112	B	C	2B
C6113	B	C	2B
C6114	B	C	1B
C6115	B	C	1B
C6116	B	C	1B
C6117	B	C	1B
C6118	B	C	1B
C6119	B	C	1B
C6120	B	C	1B
C6121	A	C	2B
C6122	B	C	2B
C6123	B	C	2B
C6126	B	C	1A
C6127	A	C	2C
C6128	B	C	2C
C6129	A	C	3B
C6130	A	C	2B
C6131	B	C	3B
C6132	B	C	3B
C6133	B	C	2B
C6134	A	C	2B
C6135	B	C	3B
C6136	B	C	3B
C6137	B	C	2B
C6138	B	C	2B
C6139	B	C	2B
C6140	B	C	2B
C6141	B	C	2A
C6142	B	C	2B
C6143	A	C	2B
C6144	B	C	2B
C6145	A	C	1B
C6146	B	C	1B
C6147	B	C	1B
C6148	B	C	1B
C6149	A	C	2A
C6150	B	C	2A
C6151	B	C	2B
C6152	B	C	2B
C6153	B	C	1C
CONNECTOR			
CN202	B	C	4C
CN203	B	C	4B
CN601	A	C	2A
CN602	B	C	1A
DIODE			
D2701	B	C	4A
D2702	B	C	4A
D2703	B	C	4A
D2704	B	C	4A
D2705	B	C	4A
D2706	B	C	4A
D2901	A	C	4B
D2902	A	C	4B
D2903	A	C	4B
D6101	B	C	2B
D6102	A	C	2C
D6103	B	C	2B
D6104	A	C	2B
D6105	A	C	2A
D6106	A	C	2B
D6107	B	C	2B
D6108	A	C	2A
FUSE			
F6101	A	C	1C
F6102	A	C	1C
F6103	A	C	2B
IC			
IC6101	A	C	1B
COIL			
L2201	B	C	4A
L2202	A	C	4A
L2206	A	C	4A
L2901	B	C	4C
L2902	B	C	4B
L2903	B	C	4B
L2904	B	C	4B
L2905	B	C	4B
L2906	A	C	4C
L2907	B	C	4B
L2908	B	C	4B
L2909	B	C	4B
L2910	B	C	4B
L2911	A	C	4C
L6101	A	C	1B
L6102	A	C	1B
L6103	B	C	2B
L6104	B	C	1B
L6107	B	C	3B
L6108	A	C	3B
L6109	B	C	3B
L6110	A	C	3B
L6111	B	C	2A
L6112	A	C	2B
TRANSISTOR			
Q2201	A	C	4A
Q2701	B	C	4A
Q2702	B	C	4A
Q2703	B	C	4A
Q2704	B	C	4A
Q2901	A	C	4C
Q2902	A	C	4C
Q2903	B	C	4B
Q2904	B	C	4B
Q2905	B	C	4B
Q6101	A	C	2B
Q6102	B	C	2C
Q6103	A	C	2C
Q6105	A	C	2B
Q6106	A	C	2B
Q6107	B	C	2B
Q6108	A	C	2B
Q6109	A	C	1B
Q6110	B	C	2B
Q6111	B	C	1B
Q6112	B	C	2B
Q6113	A	C	2B
Q6114	A	C	2B
RESISTOR			
R1112	A	C	4C
R1113	A	C	4C
R2201	A	C	4A
R2202	A	C	4A
R2203	A	C	4A
R2204	A	C	4A
R2205	A	C	4A
R2206	A	C	4A
R2208	B	C	4A
R2209	B	C	4A
R2210	B	C	4A
R2211	B	C	4A
R2212	B	C	4A
R2214	A	C	4A
R2222	A	C	4B
R2223	B	C	4A
R2701	A	C	4A
R2702	A	C	4A
R2703	A	C	4A
R2704	A	C	4A
R2705	A	C	4A
R2706	A	C	4A
R2707	A	C	4A
R2708	A	C	4A
R2709	B	C	4A
R2710	B	C	4A
R2711	B	C	4A
R2712	B	C	4A
R2713	B	C	4A
R2714	B	C	4A
R2901	A	C	4C
R2902	A	C	4C
R2903	A	C	4B
R2904	A	C	4C
R2905	A	C	4C
R2906	A	C	4C
R2907	A	C	4C
R2908	A	C	4C
R2909	A	C	4B
R2910	B	C	4B
R2911	B	C	4B
R2912	B	C	4B
R2913	B	C	4B
R2914	A	C	4B
R2917	B	C	4B
R2918	B	C	4B
R2919	A	C	4B
R2920	B	C	4B
R6101	B	C	2C
R6102	A	C	2C
R6103	A	C	2C
R6104	B	C	1B
R6105	B	C	1B
R6106	B	C	1B
R6107	B	C	1B
R6108	B	C	1C
R6109	A	C	1B
R6110	A	C	1B
R6111	A	C	2C
R6112	B	C	2C
R6113	B	C	2B
R6114	B	C	2B
R6115	B	C	2B
R6116	A	C	2C
R6118	A	C	3B
R6119	A	C	3B
R6120	A	C	2B
R6121	A	C	2B
R6122	B	C	2B
R6123	B	C	2B
R6124	B	C	2B
R6125	A	C	2B
R6126	A	C	2B
R6127	B	C	2C
R6128	B	C	2B
R6129	B	C	2B
R6130	A	C	2B
R6131	B	C	2B
R6132	A	C	2B
R6133	B	C	2C
R6134	B	C	2B
R6135	B	C	2B
R6136	B	C	2B
R6137	A	C	2B
R6138	A	C	2B
R6139	A	C	1B
R6140	A	C	1B
R6141	A	C	1B
R6142	A	C	1B
R6143	B	C	1B
R6144	A	C	2B
R6145	A	C	1B
R6146	A	C	1B
R6147	A	C	1B
R6148	A	C	1B
R6149	B	C	1B
R6150	A	C	1B
R6151	B	C	2B
R6152	A	C	2B
R6153	B	C	2B
R6154	B	C	2B
R6155	B	C	2B
R6156	A	C	2B
R6157	A	C	2B
R6158	A	C	2B
R6159	A	C	2B
R6160	B	C	1B
OTHER			
J201	A	D	5A
TL2201	A	C	4B
TL2203	A	C	4B
TL2204	A	C	4B
TL2603	A	C	4B
TL2604	A	C	4B
TL_-15V	A	C	2B
TP1	A	C	1C
TP2	A	C	1B
TP3	A	C	1A
ZP1	A	C	1C
ZP3	A	C	3B
ZP61-1	A	C	2B
ZP61-2	A	C	2B
ZP61-4	A	C	2A
ZP61-7	A	C	2B
ZP61-9	A	C	1B
ZP61-11	A	C	1A
ZP61-15	A	C	1B
ZP61-23	A	C	3B
ZP61-27	A	C	1B
ZP61-29	A	C	1C
ZP61-32	A	C	1C
ZP61-41	A	C	2B
ZP61-42	A	C	2B
ZP61-44	A	C	1B
ZP61-46	A	C	1B
ZP61-48	A	C	2A
ZP61-52	A	C	3B
ZP61-53	A	C	3B
ZP61-68	A	C	1B
ZP61-70	A	C	1B
ZP61-71	A	C	1C
ZP61-72	A	C	1B

4.31 MONITOR CIRCUIT BOARD

FOIL SIDE(B)



COMPONENT SIDE(A)



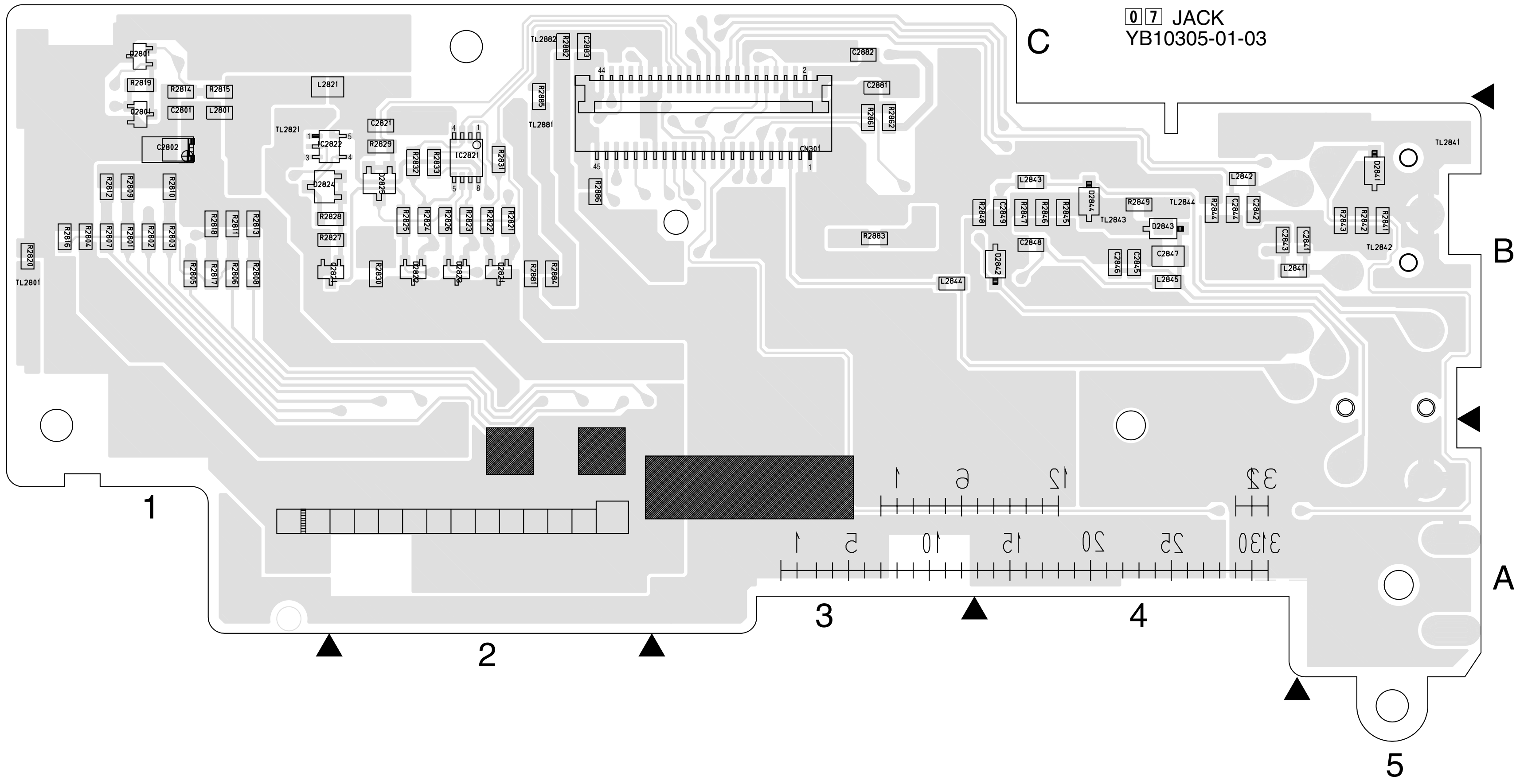
COMPONENT PARTS LOCATION GUIDE <MONITOR >

REF.NO.	LOCATION		
CAPACITOR			
C7301	A	C	2C
C7302	A	C	3B
C7303	A	C	2B
C7304	A	C	2B
C7305	A	C	2B
C7306	A	C	2B
C7307	A	C	2B
C7308	A	C	2C
C7309	A	C	2B
C7310	A	C	2B
C7311	A	C	2B
C7312	A	C	2B
C7313	A	C	2C
C7314	A	C	2C
C7315	A	C	2C
C7316	A	C	2C
C7317	A	C	2B
C7318	A	C	2C
C7319	A	C	2B
C7320	A	C	3B
C7321	A	C	2B
C7322	A	C	2B
C7323	A	C	2B
C7324	A	C	2B
C7330	A	C	3B
C7331	A	C	2B
C7332	A	C	3B
C7333	A	C	3C
C7334	A	C	3C
C7335	A	C	2C
C7336	A	C	2B
C7337	A	C	3C
C7338	A	C	2A
C7401	A	C	1B
C7402	A	C	2B
C7403	A	C	2B
C7404	A	C	2A
C7405	A	C	2A
C7406	A	C	2A
C7407	A	C	2A
C7408	A	C	2C
C7410	A	C	1A
C7411	A	C	1A
C7412	A	C	1A
C7413	A	C	1A
C7414	A	C	1A
C7415	A	C	1A
C7416	A	C	1A
C7417	A	C	1B
C7418	A	C	1B
C7419	A	C	1B
C7420	A	C	2B
C7421	A	C	2B
C7422	A	C	2A
C7423	A	C	2B
C7424	A	C	2B
C7425	A	C	2A
C7501	A	C	3D
C7502	A	C	3D
C7503	A	C	1D
C7504	A	C	1C
C7505	A	C	2D
C7506	A	C	2D
C7507	A	C	2D
C7508	A	C	3D
C7509	A	C	1C
C7510	A	C	3D
C7511	A	C	2C
CONNECTOR			
CN7501	A	C	2D
CN7502	A	C	3C
DIODE			
D7301	A	C	2A
D7302	A	C	3B
D7303	A	C	3C
D7401	A	C	2B
D7501	A	C	2D
FUSE			
F7501	A	C	1D
IC			
IC7301	A	C	2B
IC7302	A	C	2C
IC7401	A	C	1A
IC7501	A	C	2D
IC7502	A	C	2C
COIL			
L7301	A	C	2B
L7302	A	C	1B
L7303	A	C	1B
L7304	A	C	2B
L7401	A	C	2B
L7402	A	C	1B
L7501	A	C	1C
TRANSISTOR			
Q7301	A	C	1B
Q7302	A	C	3B
Q7303	A	C	3B
Q7304	A	C	3B
Q7305	A	C	3B
Q7306	A	C	3B
Q7307	A	C	3B
Q7401	A	C	1B
Q7501	A	C	2D
Q7502	A	C	2C
Q7503	A	C	2D
Q7504	A	C	3D
RESISTOR			
R7301	A	C	2C
R7302	A	C	3B
R7303	A	C	3B
R7304	A	C	2B
R7305	A	C	3B
R7306	A	C	3B
R7307	A	C	3B
R7314	A	C	2C
R7315	A	C	2C
R7316	A	C	1B
R7320	A	C	2B
R7321	A	C	2B
R7322	A	C	2A
R7323	A	C	2B
R7324	A	C	2A
R7325	A	C	2B
R7326	A	C	2B
R7330	A	C	3B
R7331	A	C	3B
R7332	A	C	3B
R7333	A	C	3B
R7334	A	C	3B
R7335	A	C	3B
R7336	A	C	2C
R7401	A	C	1B
R7402	A	C	1B
R7403	A	C	1B
R7404	A	C	1B
R7405	A	C	1B
R7406	A	C	1B
R7407	A	C	1B
R7414	A	C	1A
R7415	A	C	1A
R7416	A	C	1A
R7417	A	C	1B
R7418	A	C	1B
R7420	A	C	2A
R7421	A	C	2A
R7422	A	C	2A
R7423	A	C	2B
R7424	A	C	2A
R7425	A	C	2A
R7426	A	C	2B
R7501	A	C	3D
R7502	A	C	3D
R7503	A	C	3D
R7504	A	C	3D
R7505	A	C	2D
R7506	A	C	3D
R7507	A	C	2D
R7508	A	C	1D
R7509	A	C	1D
R7510	A	C	1D
R7511	A	C	1B
R7512	A	C	2D
R7513	A	C	2D
R7514	A	C	2D
R7515	A	C	3D
R7516	A	C	3D
R7517	A	C	3D
R7518	A	C	3D
R7519	A	C	3D
R7520	A	C	2D
R7521	A	C	2D
R7522	A	C	3D
R7523	A	C	3D
R7524	A	C	3D
R7525	A	C	2D
R7526	A	C	2C
R7527	A	C	3D
R7528	A	C	3D
R7529	A	C	2C
OTHER			
JP7501	A	C	1D
JP7502	A	C	1B
PC0229	A	C	3A
PC0230	A	C	3A
T7501	A	C	2C
T7502	A	C	1C
TL7301	A	C	2A
TL7302	A	C	2A
TL7303	A	C	3C
TL7304	A	C	3B
TL7305	A	C	3B
TL7306	A	C	3A
TL7307	A	C	3B
TL7401	A	C	2A
TL7402	A	C	2A
TL7403	A	C	1A
TL7404	A	C	1B
TL7405	A	C	1B
TL7406	A	C	1B
ZP1-1	A	C	1B
ZP1-5	A	C	1C
ZP1-11	A	C	2B
ZP1-13	A	C	1B
ZP1-14	A	C	1A
ZP1-16	A	C	1B
ZP1-17	A	C	1B
ZP1-19	A	C	1B
ZP1-25	A	C	2C
ZP1-26	A	C	1B
ZP1-27	A	C	2C
ZP1-28	A	C	2C
ZP1-29	A	C	2C
ZP1-30	A	C	2C
ZP1-31	A	C	2C
ZP1-33	A	C	1B
ZP1-37	A	C	1B

4.32 JACK CIRCUIT BOARD

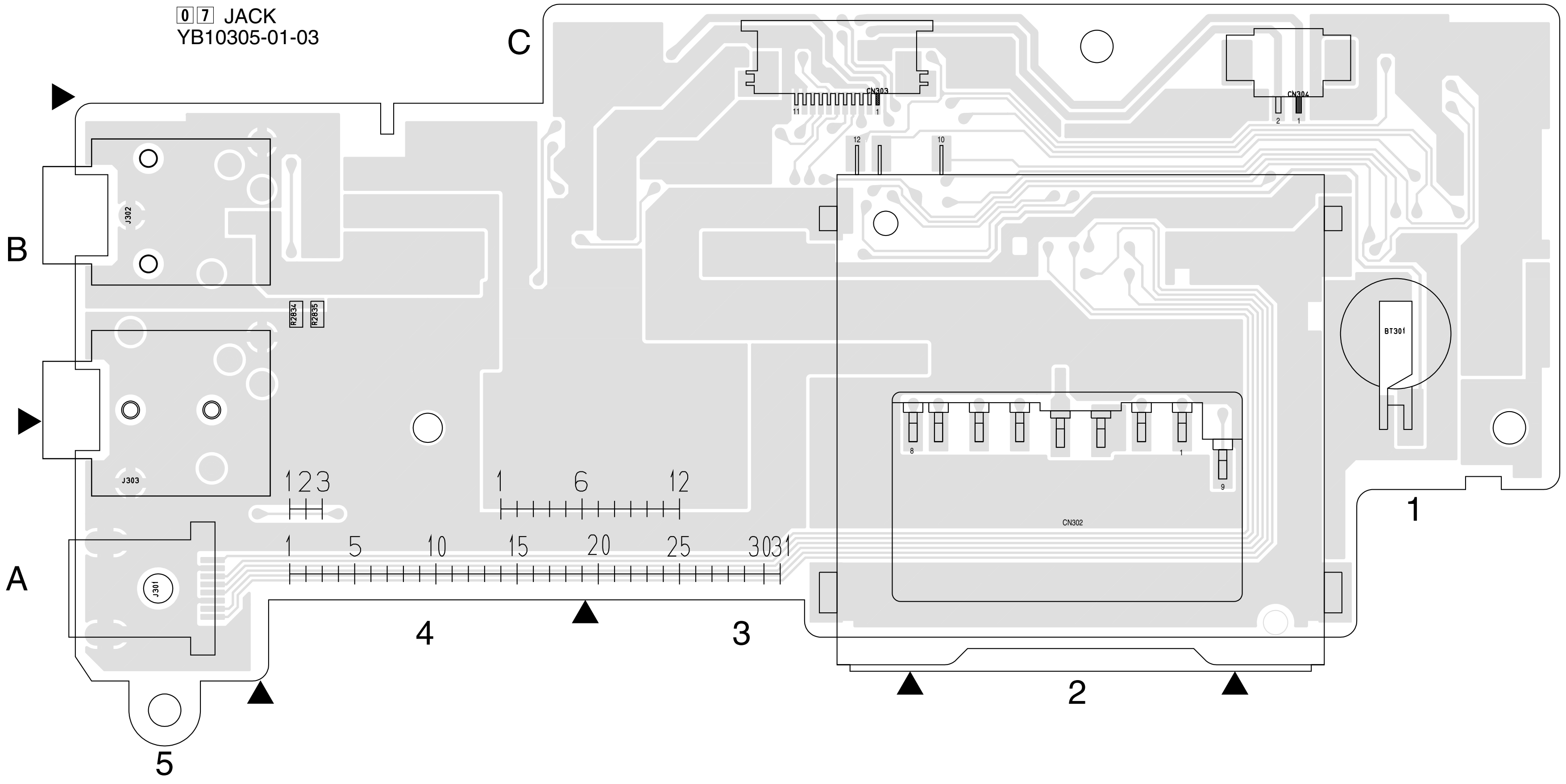
FOIL SIDE(B)

07 JACK
YB10305-01-03



COMPONENT SIDE(A)

07 JACK
YB10305-01-03



COMPONENT PARTS LOCATION GUIDE
＜JACK＞

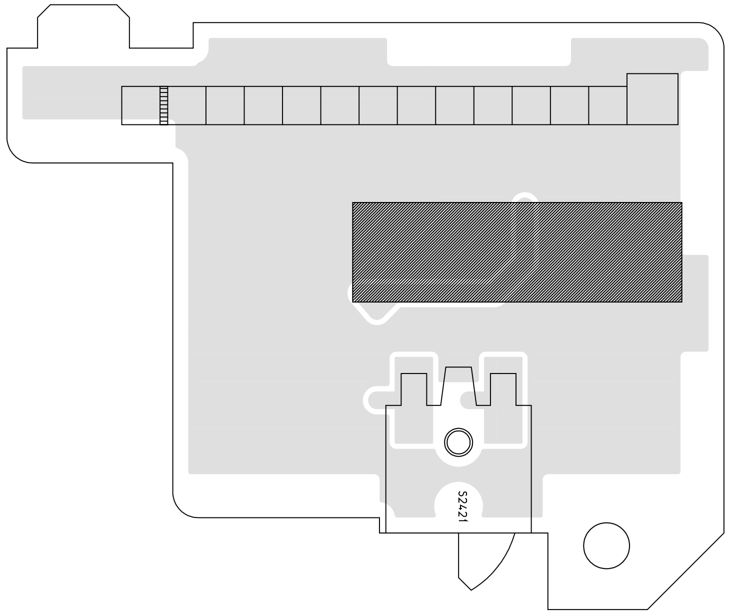
REF.NO.	LOCATION		
CAPACITOR			
C2801	B	C	1B
C2802	B	C	1B
C2821	B	C	2B
C2841	B	C	5B
C2842	B	C	4B
C2843	B	C	4B
C2844	B	C	4B
C2845	B	C	4B
C2846	B	C	4B
C2847	B	C	4B
C2848	B	C	4B
C2849	B	C	4B
C2881	B	C	3C
C2882	B	C	3C
C2883	B	C	2C
CONNECTOR			
CN301	B	C	3B
CN302	A	C	2A
CN303	A	C	3C
CN304	A	C	1C
DIODE			
D2801	B	C	1C
D2821	B	C	2B
D2822	B	C	2B
D2823	B	C	2B
D2824	B	C	1B
D2825	B	C	2B
D2841	B	C	5B
D2842	B	C	4B
D2843	B	C	4B
D2844	B	C	4B
IC			
IC2821	B	C	2B
IC2822	B	C	2B
COIL			
L2801	B	C	1B
L2821	B	C	1C
L2841	B	C	4B
L2842	B	C	4B
L2843	B	C	4B
L2844	B	C	3B
L2845	B	C	4B
TRANSISTOR			
Q2801	B	C	1B
Q2821	B	C	2B
RESISTOR			
R2431	A	C	1A
R2435	A	C	1A
R2801	B	C	1B
R2802	B	C	1B
R2803	B	C	1B
R2804	B	C	1B
R2805	B	C	1B
R2806	B	C	1B
R2807	B	C	1B
R2808	B	C	1B
R2809	B	C	1B
R2810	B	C	1B
R2811	B	C	1B
R2812	B	C	1B
R2813	B	C	1B
R2814	B	C	1C
R2815	B	C	1C
R2816	B	C	1B
R2817	B	C	1B
R2818	B	C	1B
R2819	B	C	1C
R2820	B	C	1B
R2821	B	C	2B
R2822	B	C	2B
R2823	B	C	2B
R2824	B	C	2B
R2825	B	C	2B
R2826	B	C	2B
R2827	B	C	2B
R2828	B	C	2B
R2829	B	C	2B
R2830	B	C	2B
R2831	B	C	2B
R2832	B	C	2B
R2833	B	C	2B
R2834	A	C	4B
R2835	A	C	4B
R2841	B	C	5B
R2842	B	C	5B
R2843	B	C	5B
R2844	B	C	4B
R2845	B	C	4B
R2846	B	C	4B
R2847	B	C	4B
R2848	B	C	4B
R2849	B	C	4B
R2861	B	C	3B
R2862	B	C	3B
R2881	B	C	2B
R2882	B	C	2C
R2883	B	C	3B
R2884	B	C	2B
R2885	B	C	2C
R2886	B	C	2B
OTHER			
BT301	A	C	1B
J301	A	C	5A
J302	A	D	5B
J303	A	D	5A
PC05	A	C	5C
TL2801	B	C	1B
TL2821	B	C	1B
TL2841	B	C	5B
TL2842	B	C	5B
TL2843	B	C	4B
TL2844	B	C	4B
TL2881	B	C	2B
TL2882	B	C	2C

4.33 EJECT AND DECK OPE. CIRCUIT BOARDS

– EJECT –

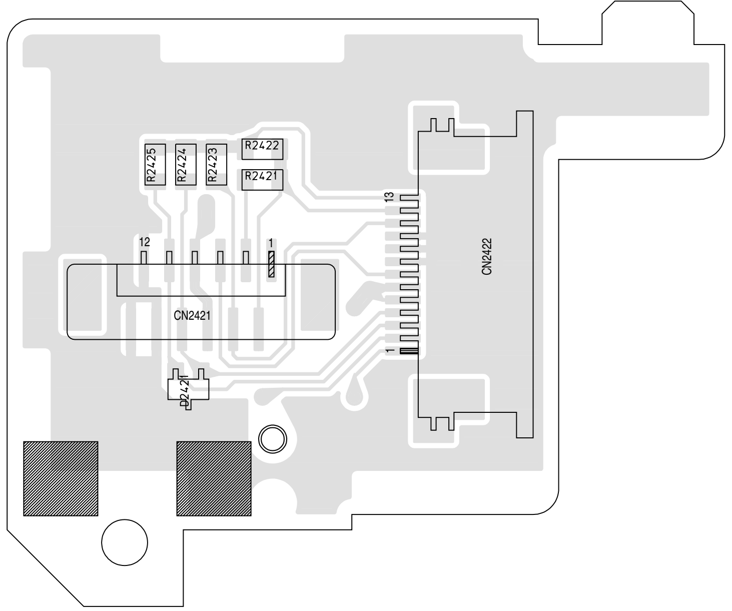
FOIL SIDE(B)

08 EJECT
YB10305-01-03



08 EJECT
YB10305-01-03

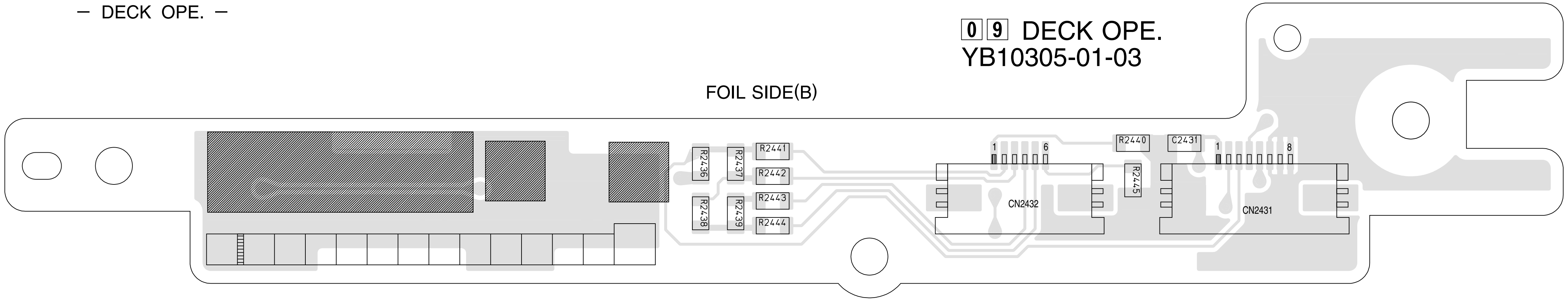
COMPONENT SIDE(A)


R2425
R2424
R2423
R2422
R2421
13
12
1
CN2421
CN2422
1
D2421

– DECK OPE. –

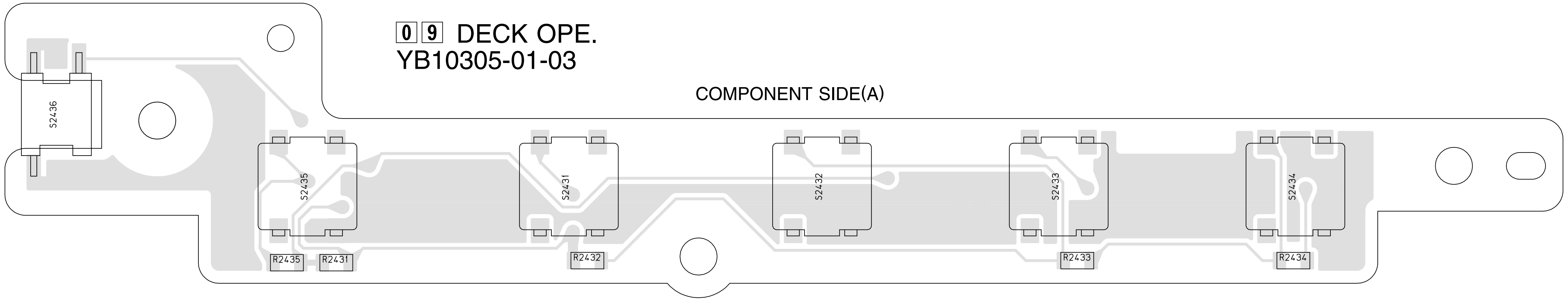
09 DECK OPE.
YB10305-01-03

FOIL SIDE(B)

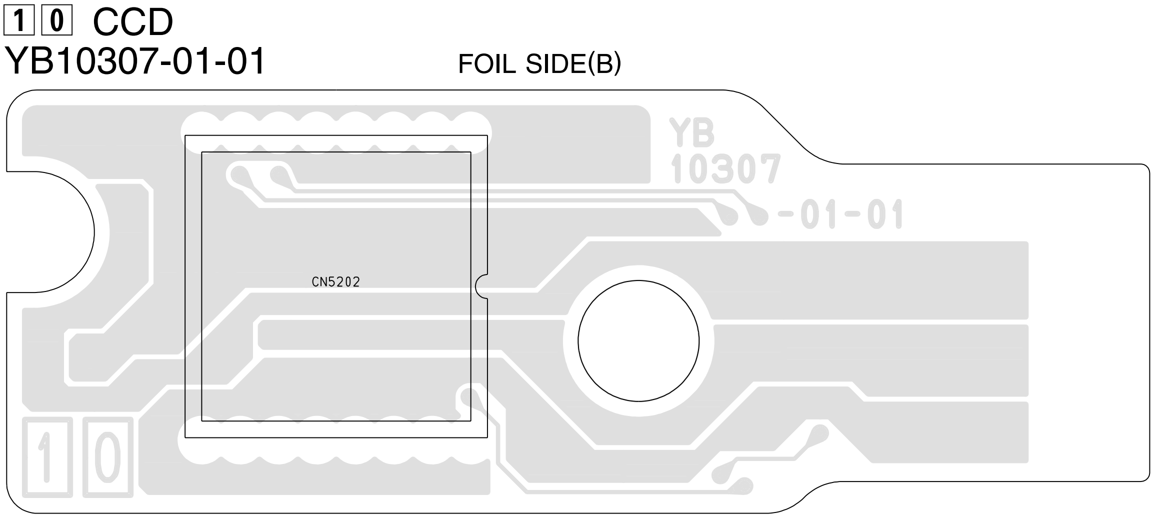

R2436
R2437
R2441
R2442
R2438
R2439
R2443
R2444
1
6
CN2432
R2440
R2445
C2431
1
8
CN2431

09 DECK OPE.
YB10305-01-03

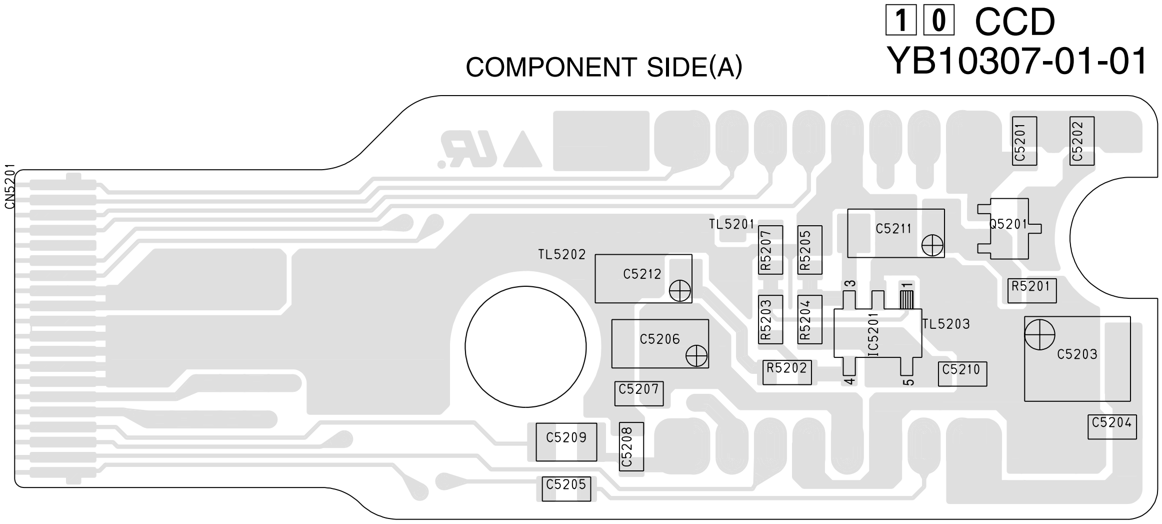
COMPONENT SIDE(A)


S2436
S2435
S2431
S2432
S2433
S2434
R2435
R2431
R2432
R2433
R2434

4.34 CCD CIRCUIT BOARD



10 CCD
YB10307-01-01
FOIL SIDE(B)
CN5202
YB
10307
-01-01
10



10 CCD
YB10307-01-01
COMPONENT SIDE(A)
CN5201
TL5201
TL5202
TL5203
C5201
C5202
C5203
C5204
C5205
C5206
C5207
C5208
C5209
C5210
C5211
C5212
Q5201
R5201
R5202
R5203
R5204
R5205
R5207
IC5201
1
3
4
5

4.35 VOLTAGE CHARTS

<MAIN IF>

MODE PIN NO.	REC	PLAY
IC1201		
1	0	0
2	4.6	4.6
3	4.6	4.6
4	0	0
5	0	0
6	2.8	2.8
7	0	0
8	0	0
IC1301		
1	0	0
2	2.9	2.9
3	0	0
4	3.0	3.0
5	3.0	3.0
IC1302		
1	3.0	3.0
2	0	0
3	0	0
4	0	0
5	3.0	3.0
IC6001		
1	6.6	6.6
2	6.4	6.4
3	0	0
4	0	0
IC6002		
1	0	0
2	6.6	6.6
3	3.3	3.3
4	0	0
IC6003		
1	6.6	6.6
2	0	0
3	6.6	6.6
4	0	0
5	3.0	3.0
IC6004		
1	3.0	3.0
2	3.0	3.0
3	0	0
4	0	0
Q1301		
E	0	0
C	0	0
B	0	0
Q2001		
D	4.6	4.6
S	0	0
G	4.5	4.5
Q2002		
D	0	0
S	4.5	4.5
G	0	0
Q6001		
D	6.7	6.7
S	6.6	6.6
G	0	0
Q6002		
D	0	0
S	0	0
G	6.6	6.6
Q6003		
D	3.7	3.7
S	0	0
G	3.0	3.0
Q6004		
D	0	0
S	6.3	6.3
G	0	0
Q6005		
D	0	0
S	0	0
G	3.0	3.0
Q6006		
D	6.6	6.6
S	6.6	6.6
G	0	0
Q6007		
1(E)	0	0
2(B)	3.0	3.0
3(E)	6.7	6.7
4(C)	6.7	6.7
5(C)	0	0

<CPU>

MODE PIN NO.	REC	PLAY
IC1001	-	-
IC1002	-	-
IC1003		
1	3.0	3.0
2	0	0
3	2.9	2.9
4	0	0
5	2.9	2.9
6	3.0	3.0
7	2.9	2.9
8	3.0	3.0
IC1004		
1	2.9	2.9
2	3.0	3.0
3	3.0	3.0
4	0	0
5	3.0	3.0
6	2.9	2.9
7	3.0	3.0
8	3.0	3.0
IC1005		
1	2.9	2.9
2	2.9	2.9
3	2.9	2.9
4	0	0
5	3.0	3.0
6	3.0	3.0
7	2.9	2.9
8	3.0	3.0
IC1006		
1	3.0	3.0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	3.0	3.0
8	3.0	3.0
IC1007		
1	2.9	2.9
2	2.5	2.5
3	2.9	2.9
4	2.9	2.9
5	2.9	2.9
6	3.0	3.0
7	1.3	1.3
8	1.4	1.4
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	2.9	2.9
20	2.7	2.7
IC1008		
1	2.9	2.9
2	2.9	2.9
3	3.0	3.0
4	2.9	2.9
5	2.9	2.9
6	2.9	2.9
7	0	0
8	2.9	2.9
9	3.0	3.0
10	3.0	3.0
11	3.0	3.0
12	3.0	3.0
13	2.9	2.9
14	3.0	3.0
Q1001		
E	0	0
C	0.4	0.4
B	0	0
Q1002		
E	0	0
C	3.0	3.0
B	0.5	0.5
Q1003		
E	0	0
C	0	0
B	0	0

<MSD CPU>

MODE PIN NO.	REC	PLAY
IC1401	-	-
IC1403	3.0	3.0
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	2.9	2.9
8	2.9	2.9
Q1401		
E	2.9	2.9
C	2.9	2.9
B	2.9	2.9
Q1402		
1(E)	0	0
2(B)	2.9	2.9
3(E)	2.9	2.9
4(C)	2.8	2.8
5(C)	0	0
Q1403		
1(E)	0	0
2(B)	0	0
3(E)	3.0	3.0
4(C)	0	0
5(C)	2.9	2.9
Q1404		
E	0	0
C	0	0
B	3.0	3.0

<DV MAIN>

MODE PIN NO.	REC	PLAY
IC3001	-	-
IC3002	-	-
IC3302	-	-

<V OUT>

MODE PIN NO.	REC	PLAY
IC3701		
1	1.9	1.9
2	1.3	1.3
3	1.3	1.3
4	1.1	1.1
5	0	0
6	0	0
7	0	0
8	0	0
9	2.6	2.6
10	2.6	2.6
11	1.9	1.9
12	2.1	2.1
13	0	0
14	2.0	2.0
15	4.6	4.6
16	3.0	3.0
17	0	0
18	1.2	1.2
19	1.7	1.7
20	1.8	1.8
IC3702		
1	4.6	4.6
2	0	0
3	1.2	1.2
4	3.0	3.0
5	4.5	4.5
Q3701		
E	0	0
C	1.1	1.1
B	0	0
Q3702		
E	0	0
C	4.6	4.6
B	0	0

<ANA IN>
[GR-DV2000EG/EK]

MODE PIN NO.	REC	PLAY
IC3901		
1	0	0
2	2.9	2.9
3	1.1	1.1
4	0.6	0.6
5	0	0
6	1.6	1.6
7	0.6	0.6
8	1.1	1.1
9	0	0
10	2.9	2.9
11	0.5	0.5
12	0	0
13	0	0
14	2.9	2.9
15	0	0
16	0	0
17	0	0
18	0	0
19	0	0
20	0	0
21	0	0
22	0	0
23	1.7	1.7
24	2.8	2.8
25	1.5	1.5
26	0.9	0.9
27	1.0	1.0
28	1.2	1.2
29	1.3	1.3
30	0	0
31	2.9	2.9
32	1.3	1.3
33	1.3	1.3
34	1.3	1.3
35	1.2	1.2
36	2.7	2.7
37	1.5	1.5
38	1.3	1.3

MODE PIN NO.	REC	PLAY
39	1.2	1.2
40	1.4	1.4
41	1.3	1.3
42	1.3	1.3
43	1.5	1.5
44	1.4	1.4
45	1.5	1.5
46	0	0
47	0	0
48	0	0
49	2.9	2.9
50	2.9	2.9
51	2.9	2.9
52	0	0
53	1.6	1.6
54	1.4	1.4
55	3.0	3.0
56	0	0
57	0	0
58	2.9	2.9
59	2.7	2.7
60	2.8	2.8
61	1.4	1.4
62	0	0
63	2.9	2.9
64	0	0
65	0	0
66	0	0
67	0	0
68	0	0
69	0	0
70	0	0
71	0	0
72	0	0
73	2.9	2.9
74	1.1	1.1
75	0.5	0.5
76	0	0
77	1.6	1.6
78	0.5	0.5
79	1.1	1.1
80	0.5	0.5
IC3903		
1	0	0
2	2.7	2.7
3	0	0
4	0	0
5	2.9	2.9
IC3951		
1	3.0	3.0
2	2.1	2.1
3	4.6	4.6
4	1.7	1.7
5	0	0
6	2.4	2.4
Q3951		
1(E)	0	0
2(B)	0.5	0.5
3(C)	0	0
4(E)	2.1	2.1
5(B)	1.5	1.5
6(C)	4.6	4.6
Q3952		
E	0	0
C	0	0
B	3.0	3.0
Q3953		
1(E)	0	0
2(B)	0.4	0.4
3(C)	0	0
4(E)	4.5	4.5
5(B)	4.6	4.6
6(C)	4.6	4.6
Q3954		
E	0	0
C	4.6	4.6
B	0	0

<TG/VDR>

MODE PIN NO.	REC	PLAY
IC5001		
1	0	0
2	3.0	3.0
3	0	0
4	0	0
5	3.0	3.0
6	3.0	3.0
7	0	0
8	2.9	2.9
9	3.0	3.0
10	3.0	3.0
11	3.4	3.4
12	0	0
13	0	0
14	0	0
15	1.5	0
16	0	0
17	0	0
18	1.1	0
19	3.4	3.4
20	1.9	0
21	2.0	0
22	3.0	3.0
23	0	0
24	0.8	0
25	2.6	0
26	3.0	0
27	3.0	0
28	0	0
29	0	0
30	0	0
31	1.4	0.9
32	0	0
33	3.0	3.0
34	0	0
35	0.8	0
36	1.1	0
37	0.7	0
38	3.0	3.0
39	0	0
40	0	0
41	0	0
42	1.4	1.4
43	0	0
44	0.6	0.6
45	0	0
46	0	0
47	1.5	1.5
48	1.5	0
49	1.5	0
50	0	0
51	0	0
52	-7.3	0
53	0	0
54	14.9	14.9
55	0	0
56	0	0
57	0	0
58	0	0
59	0	0
60	-7.3	0
61	-7.6	-7.6
62	-7.3	0
63	-7.6	-7.6
64	0	0
IC5002		
1	4.6	4.6
2	0	0
3	1.2	1.2
4	3.4	3.4
5	4.6	4.6
IC5004		
1	0.9	0
2	0.9	0.9
3	0	0
4	0	0
5	3.0	3.0
6	1.3	1.3
7	3.0	3.0
8	0.5	1.4

<CDS/AD>

MODE PIN NO.	REC	PLAY
IC4201		
1	0	0
2	1.2	0
3	1.2	0
4	1.2	0
5	1.2	0
6	1.0	0
7	1.4	3.1
8	1.3	0
9	0.6	0
10	0.7	0
11	0	0
12	0	0
13	0	0
14	0	0
15	3.1	3.1
16	0.9	0
17	3.0	0
18	1.9	0
19	2.0	0
20	2.6	0
21	0	0
22	0	0
23	3.0	3.0
24	0	0
25	0	0
26	2.1	0.7
27	1.5	0
28	2.0	0
29	2.0	0
30	0	0
31	3.0	3.0
32	2.0	1.3
33	1.0	1.2
34	1.5	1.1
35	1.2	0
36	0	0
37	0	0
38	3.0	3.0
39	0	0
40	0	0
41	3.0	3.0
42	0	0
43	3.0	3.0
44	2.9	2.9
45	2.9	2.9
46	3.1	3.1
47	-	-
48	-	-
IC4202		
1	3.0	3.0
2	4.6	4.6
3	0	0

<DSP>

MODE PIN NO.	REC	PLAY
IC4301	-	-
IC4302		
1	2.9	2.9
2	0	0
3	1.2	1.2
4	2.5	2.5
5	2.9	2.9
IC4401		
1	0	0
2	1.2	1.2
3	1.2	1.2
4	0.6	0.6
5	0.8	0.8
6	1.4	1.4
7	1.1	1.1
8	1.3	1.3
9	1.2	1.2
10	3.0	3.0
11	3.0	3.0
12	1.4	1.4
13	1.4	1.4
14	2.2	1.5
15	0	0
16	2.9	2.9
17	2.9	2.9
18	1.3	1.3
19	1.5	1.5
20	0	0
Q4351	-	-
Q4352	-	-
Q4353	-	-
Q4354	-	-

<OP DRIVE>

MODE PIN NO.	REC	PLAY
IC4802		
1	2.5	2.5
2	2.1	2.1
3	2.0	2.0
4	0	0
5	2.1	2.1
6	2.0	2.0
7	2.1	2.1
8	4.6	4.6
IC4803		
1	1.1	1.1
2	0.5	0.5
3	0.4	0.4
4	0	0
5	2.1	2.1
6	2.1	2.1
7	1.7	0.5
8	4.6	4.6
IC4804		
1	2.1	0.7
2	2.0	2.3
3	2.0	2.0
4	0	0
5	2.1	2.1
6	2.1	1.6
7	2.0	3.9
8	4.6	4.6
IC4805		
1	2.1	0
2	1.8	0.5
3	1.8	0
4	0	0
5	1.9	1.9
6	2.1	2.1
7	2.0	2.0
8	4.6	4.6
IC4806		
1	1.8	0
2	1.8	0
3	1.8	0
4	0	0
5	3.0	3.0
6	1.2	2.9
7	1.2	2.9
8	3.0	3.0

MODE PIN NO.	REC	PLAY
IC4807		
1	2.0	2.0
2	2.0	2.0
3	4.5	4.5
4	0	0
5	2.0	2.0
6	2.0	2.0
7	4.5	4.5
8	4.6	4.6
IC4808		
1	2.1	1.6
2	2.0	3.9
3	0	0
4	2.1	1.7
5	4.6	4.6
IC4851		
1	0	0
2	0.6	0.6
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	3.0	3.0
9	6.7	6.7
10	0	0
11	0	0
12	0	0
13	6.7	6.7
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	0	0
20	0	0
21	0	0
22	0	0
23	6.7	6.7
24	0	0
25	0	0
26	0	0
27	6.7	6.7
28	0	0
29	0	0
30	0	0
31	3.0	3.0
32	0	0
33	0	0
34	2.8	2.8
35	2.9	2.9
36	1.5	1.5
37	1.4	1.4
38	2.9	2.9
IC4901	-	-
IC4902	-	-
IC4903	-	-
IC4904	-	-
Q4801		
E	0.5	0.5
C	1.6	1.6
B	1.1	1.1
Q4802		
E	0	0
C	2.0	3.9
B	0	0
Q4803		
E	0	0
C	4.5	4.5
B	0	0
Q4804		
E	4.6	4.6
C	2.1	1.7
B	4.5	4.5
Q4851		
E	0	0
C	3.5	3.5
B	0	0
Q4901	-	-

<DSC>

MODE PIN NO.	REC	PLAY
IC8001	-	-
IC8003	-	-
IC8004		
1	0	0
2	0	0
3	2.9	2.9
4	2.9	2.9
5	3.0	3.0
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	2.9	2.9
12	2.9	2.9
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	0	0
20	0	0
21	0	0
22	0	0
23	0	0
24	0	0
25	3.0	3.0
26	2.9	2.9
27	0	0
28	2.9	2.9
29	2.9	2.9
30	2.9	2.9
31	2.9	2.9
32	2.9	2.9
33	2.9	2.9
34	2.9	2.9
35	2.9	2.9
36	2.9	2.9
37	2.9	2.9
38	2.9	2.9
39	2.9	2.9
40	2.9	2.9
41	2.9	2.9
42	2.9	2.9
43	2.9	2.9
44	2.9	2.9
45	2.9	2.9
46	0	0
47	2.9	2.9
48	0	0
IC8006	-	-
IC8007	-	-
IC8008	-	-
IC8009	-	-

<P SHIFT>

MODE PIN NO.	REC	PLAY
IC8201	-	-
IC8202	-	-
IC8203	-	-
IC8204	-	-

<USB>

MODE PIN NO.	REC	PLAY
IC8401	-	-
IC8402	-	-
Q8401		
E	3.3	3.3
C	0	0
B	3.3	3.3

<MDA>

MODE PIN NO.	REC	PLAY
IC1601		
1	0	0
2	1.1	1.1
3	1.1	1.1
4	0	0
5	1.1	1.1
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	4.6	4.6
15	0	0
16	0.4	0.4
17	0	0
18	0.4	0.4
19	0	0
20	0.5	0.5
21	0	0
22	0	0
23	0.8	0.8
24	6.6	6.6
25	1.5	1.5
26	1.5	1.5
27	1.5	1.5
28	1.5	1.5
29	1.5	1.5
30	1.5	1.5
31	1.5	1.5
32	1.5	1.5
33	-	-
34	1.5	1.5
35	3.0	3.0
36	3.0	3.0
37	0.4	0.4
38	0.7	0.7
39	0.7	0.7
40	1.2	1.2
41	1.5	1.5
42	1.5	0.6
43	2.9	2.9
44	0	0
45	0	0
46	0	0
47	2.9	2.9
48	0	0
49	3.0	3.0
50	1.9	1.9
51	0	0
52	1.3	1.3
53	1.0	1.0
54	1.4	0.7
55	0.6	0.6
56	0.7	0.7
57	1.0	1.0
58	0.6	0.6
59	0	0
60	1.0	1.0
61	2.7	2.7
62	1.1	1.1
63	1.5	1.5
64	1.4	1.4
65	1.5	1.5
66	1.4	1.4
67	1.5	1.5
68	0.6	0.6
69	0	0
70	1.1	1.1
71	1.1	1.1
72	1.1	1.1
73	1.1	1.1
74	1.1	1.1
75	0.4	0.4
76	0	0
77	6.7	6.7
78	2.4	2.4
79	0	0
80	0	0
IC1701		
1	-	-
2	1.4	1.4
3	1.4	1.4
4	0	0
5	1.4	1.4
6	1.4	1.4
7	-	-
8	4.6	4.6
IC1702		
1	-	-
2	1.4	1.4
3	-	-
4	0	0
5	-	-
6	1.4	1.4
7	-	-
8	4.6	4.6
Q1601		
1(E)	0	0
2(B)	0	0
3(E)	4.6	4.6
4(C)	0	0
5(C)	4.6	4.6

<PRE/REC>

MODE PIN NO.	REC	PLAY
IC3501		
1	0	0
2	1.1	1.1
3	0	0
4	0.9	1.6
5	2.5	2.5
6	2.2	1.5
7	1.4	0
8	0	0
9	3.7	0
10	1.1	1.1
11	2.9	2.9
12	0	0
13	4.5	4.5
14	0	0
15	0	0
16	0	0
17	0	0
18	3.7	1.6
19	3.7	1.6
20	3.7	1.6
21	3.7	1.6
22	0	0
23	3.7	1.6
24	3.7	1.6
25	3.7	1.6
26	3.7	1.6
27	0	0
28	1.8	1.8
29	3.7	1.7
30	3.7	1.7
31	1.8	1.8
32	0	0

MODE PIN NO.	REC	PLAY
33	0	0
34	0	0
35	1.8	1.8
36	0.5	0.5
37	2.9	2.9
38	0	2.9
39	3.0	3.0
40	1.5	1.5
41	0	2.9
42	2.9	0
43	4.6	4.6
44	2.9	0
45	0	0
46	0	1.8
47	0	1.8
48	4.4	2.9
49	4.1	2.6
50	0.6	1.6
51	1.4	1.4
52	0.8	1.5
53	0	0
54	2.9	2.6
55	2.5	1.9
56	1.1	1.1
57	2.5	1.9
58	2.5	1.3
59	0	0
60	1.2	1.2
61	2.8	1.9
62	2.5	1.9
63	2.5	1.3
64	2.5	1.9
IC3502		
1	0	0
2	0	0
3	0	0
4	0.8	2.9
5	0	0

<AUDIO>

MODE PIN NO.	REC	PLAY
IC1101		
1	2.3	2.3
2	2.3	2.3
3	2.3	2.3
4	0	0
5	2.3	2.3
6	2.3	2.3
7	1.2	1.6
8	4.6	4.6
IC2201		
1	1.8	3.3
2	1.8	0
3	1.8	3.3
4	1.8	1.8
5	1.4	1.4
6	1.4	1.4
7	1.4	1.4
8	0	0
9	2.9	2.9

MODE PIN NO.	REC	PLAY
10	1.5	1.5
11	1.4	1.4
12	1.4	1.4
13	1.4	1.4
14	1.4	1.4
15	1.4	1.4
16	0	0
17	1.3	1.3
18	1.4	1.4
19	2.3	2.3
20	1.4	1.4
21	2.3	2.3
22	2.3	2.3
23	4.5	4.5
24	0	0
25	0	0
26	0	0
27	2.9	2.9
28	0	0
29	1.4	0
30	1.4	1.4
31	2.9	2.9
32	3.0	3.0
33	2.9	2.9
34	1.4	1.4
35	1.5	1.5
36	1.3	0
37	3.0	3.0
38	0	0
39	0	0
40	0	0
41	0	0
42	0	0
43	4.4	4.4
44	1.5	1.5
45	1.8	1.8
46	1.8	3.3
47	1.8	0.8
48	0	0
49	1.8	0.6
50	1.8	0.9
51	1.8	0.9
52	2.3	0
53	1.8	0
54	1.8	0
55	3.5	3.8
56	1.8	2.0
57	0	0
58	3.6	4.0
59	1.8	0
60	1.8	0
61	1.8	3.3
62	1.8	0
63	1.8	0
64	1.8	0
Q1151		
E	0	0
C	4.1	4.1
Q2201		
E	0	0
C	0	0
B	0.7	0.7

MODE PIN NO.	REC	PLAY
Q2202		
E	3.6	3.6
C	4.6	4.6
B	4.3	4.3
Q2203		
E	4.5	4.5
C	6.7	6.7
B	5.2	5.2
Q2601		
E	0	0
C	0	0
B	0	0
Q2602		
E	0	4.0
C	0	4.6
B	0	4.5
Q2603		
E	2.4	4.0
C	1.4	0
B	1.8	3.3
Q2604		
E	2.4	4.0
C	1.4	1.4
B	1.8	3.3
Q2605		
E	2.9	2.9
C	0	0
B	2.9	2.9
Q2701		
E	0	0
C	0	0
B	0	0
Q2702		
E	0	0
C	0	0
B	0	0
Q2703		
E	0	0
C	0	0
B	0	0
Q2704		
E	0	0
C	0	0
B	0	0
Q2901		
E	6.7	6.7
C	0	0
B	6.7	6.7
Q2902		
E	0	0
C	6.7	6.7
B	0	0
Q2903		
E	0	0
C	0	1.9
B	3.0	0
Q2904		
E	0	0
C	0	0
B	1.7	1.7

MODE PIN NO.	REC	PLAY
Q2905		
1(E)	0	0
2(E)	0	0
3(B)	1.7	1.7
4(C)	0	0
5(B)	0	0
6(C)	0.9	0.9

<REG>

MODE PIN NO.	REC	PLAY
IC6101		
1	2.2	2.2
2	1.2	1.2
3	2.2	2.2
4	0	0
5	6.6	6.6
6	1.0	1.0
7	1.2	1.2
8	2.2	2.2
9	0	0
10	0	0
11	0.8	0.8
12	1.0	1.0
13	1.0	1.0
14	0.6	0.6
15	0	0
16	0	0
17	0.6	0.6
18	1.0	1.0
19	1.0	1.0
20	1.0	1.0
21	1.0	1.0
22	0.9	0.9
23	1.0	1.0
24	1.0	1.0
25	1.0	1.0
26	0.7	0.7
27	0	0
28	1.0	1.0
29	0	0
30	2.4	2.4
31	0.7	0.7
32	0.7	0.7
33	6.5	6.5
34	6.5	6.5
35	3.0	3.0
36	2.9	2.9
37	0	0
38	4.2	4.2
39	3.4	3.4
40	2.8	2.8
41	0	0
42	1.9	1.9
43	1.3	1.3
44	5.5	5.5
45	4.7	4.7
46	2.6	2.6
47	0	0
48	2.2	2.2

MODE PIN NO.	REC	PLAY
Q6101		
D	6.6	6.4
S	3.0	3.0
G	3.4	3.2
Q6103		
D	6.6	6.6
S	1.7	1.7
G	4.8	4.8
Q6105		
D	6.6	6.6
S	2.4	2.4
G	4.2	4.2
Q6106		
D	6.6	6.6
S	1.0	1.0
G	5.5	5.5
Q6107	-	-
Q6108		
D	6.6	6.6
S	0	0
G	2.6	2.6
Q6109		
1	4.1	4.1
2	4.7	4.7
3	15.2	15.2
4	4.1	4.1
5	4.6	4.6
6	15.9	15.9
Q6110	-	-
Q6111	-	-
Q6112	-	-
Q6113		
1	-7.1	-7.3
2	-7.7	-7.7
3	-11.9	-15.7
4	-7.2	-7.2
5	-7.6	-7.6
6	-16.2	-16.2
Q6114	-	-

<JACK>

MODE PIN NO.	REC	PLAY
IC2822		
1	0	0
2	3.0	3.0
3	0	0
4	0	0
5	3.0	3.0
Q2801		
E	0	0
C	2.9	2.9
B	0	0
Q2821		
E	0	0
C	0.5	0.5
B	0	0

<MONITOR>

MODE PIN NO.	EE
IC7301	
1	0
2	2.4
3	1.7
4	0.4
5	0.3
6	2.9
7	1.5
8	1.1
9	0
10	0
11	2.9
12	0
13	2.8
14	3.0
15	2.9
16	1.3
17	0.6
18	0
19	2.9
20	2.9
21	1.3
22	1.4
23	0
24	1.4
25	2.8
26	0
27	0
28	0
29	0
30	5.8
31	1.7
32	5.8
33	1.7
34	5.8
35	1.7
36	5.8
37	11.6
38	1.7
39	5.9
40	0
41	11.6
42	5.6
43	0
44	1.5
45	2.9
46	0
47	0
48	0
49	0.9
50	2.9
51	0.9
52	0.9
53	0
54	0
55	0
56	0
57	0
58	0
59	0
60	0
61	1.4
62	1.4

MODE PIN NO.	EE
63	2.9
64	0
65	2.7
66	1.5
67	0
68	2.9
69	1.3
70	1.8
71	1.8
72	1.8
IC7302	
1	2.9
2	1.3
3	2.9
4	0
5	2.9
6	2.9
7	2.9
8	2.9
IC7401	
1	0
2	2.9
3	2.5
4	2.9
5	2.9
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	2.9
15	2.9
16	1.3
17	0.7
18	0
19	2.9
20	2.9
21	1.4
22	1.4
23	0
24	0
25	2.9
26	0
27	0
28	0
29	0
30	5.8
31	1.3
32	0
33	1.2
34	0
35	1.3
36	0
37	11.6
38	0.4
39	0
40	0
41	11.7
42	0
43	0

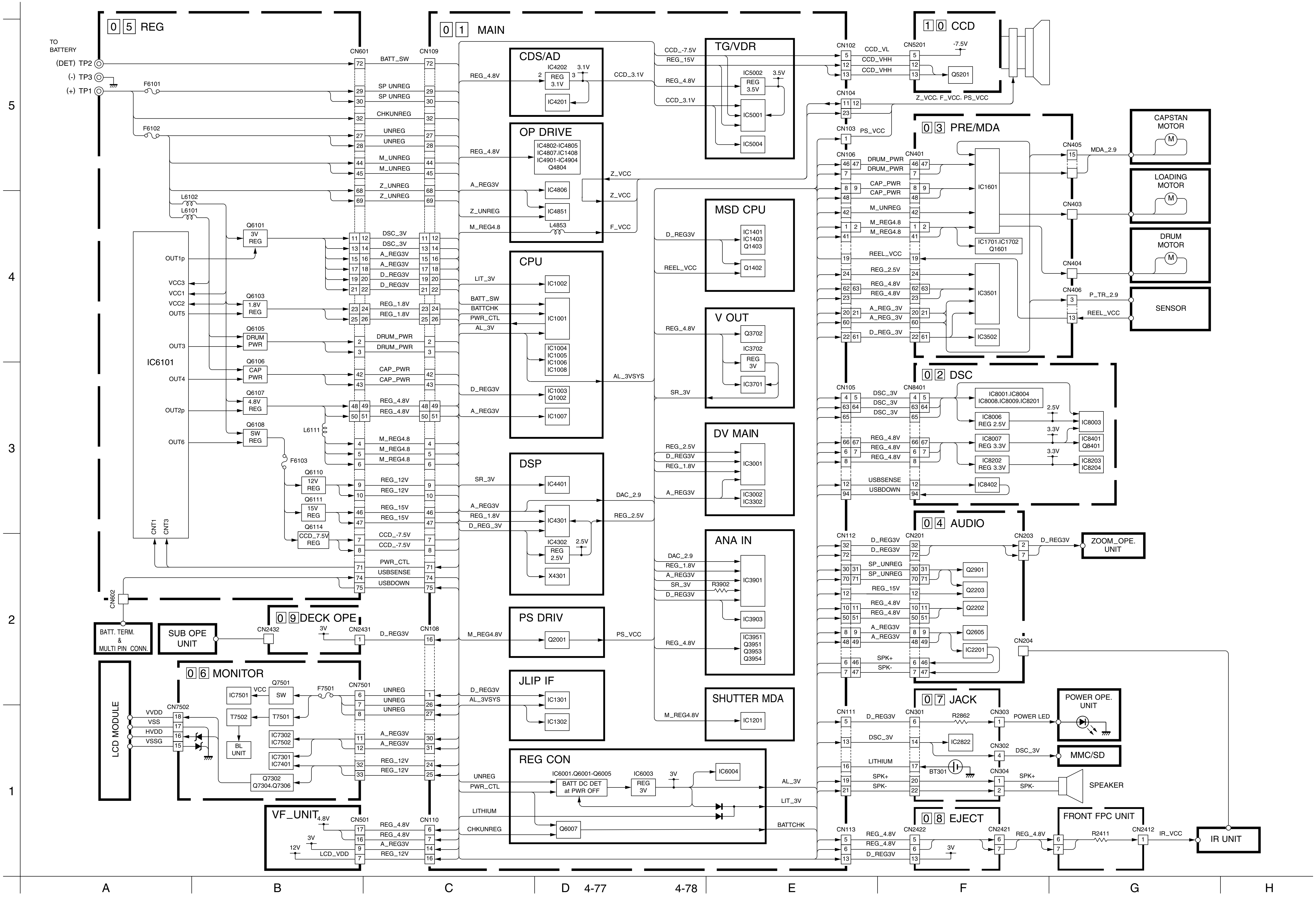
MODE PIN NO.	EE
44	0
45	0
46	0
47	0
48	0
49	0
50	0
51	0
52	0
53	0
54	0
55	2.9
56	0
57	0
58	0
59	0
60	0
61	0
62	0
63	2.9
64	0
65	0
66	0
67	0
68	0
69	0.5
70	0
71	0
72	0
IC7501	
1	1.7
2	1.0
3	0.9
4	1.0
5	0.7
6	2.4
7	0
8	0
9	6.6
10	2.1
11	0.4
12	1.9
13	-
14	1.2
15	0
16	2.5
IC7502	
1	0
2	2.9
3	0
4	0
5	2.9
Q7301	
E	1.2
C	0
B	0.6
Q7302	
E	11.7
C	11.6
B	10.9

MODE PIN NO.	EE
Q7303	
E	0
C	0
B	2.9
Q7304	
E	5.4
C	11.6
B	5.9
Q7305	
E	6.4
C	0
B	5.9
Q7306	
E	5.9
C	11.7
B	6.4
Q7307	
E	5.9
C	0
B	5.4
Q7401	
E	1.2
C	0
B	0.6
Q7501	
1(E)	0
2(B)	2.8
3(C)	6.7
4(E)	6.7
5(B)	0
6(C)	0
Q7502	
D	0
S	6.7
G	0
Q7503	
E	0
C	6.7
B	0
Q7504	
1(E)	1.8
2(E)	1.9
3(B)	1.3
4(C)	0
5(B)	1.2
6(C)	1.7

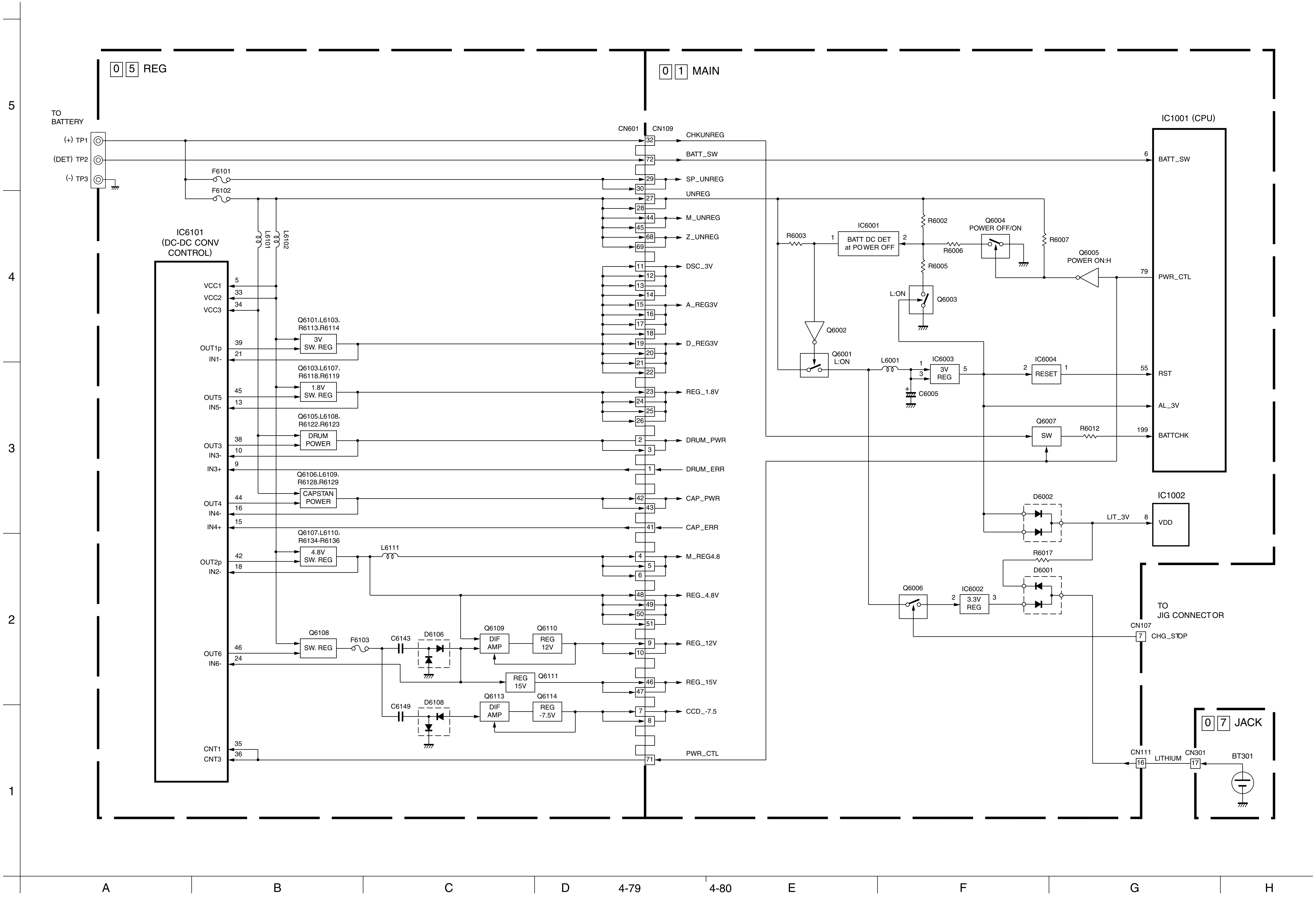
<CCD>

MODE PIN NO.	EE
Q5201	
E	11.0
C	14.9
B	11.7

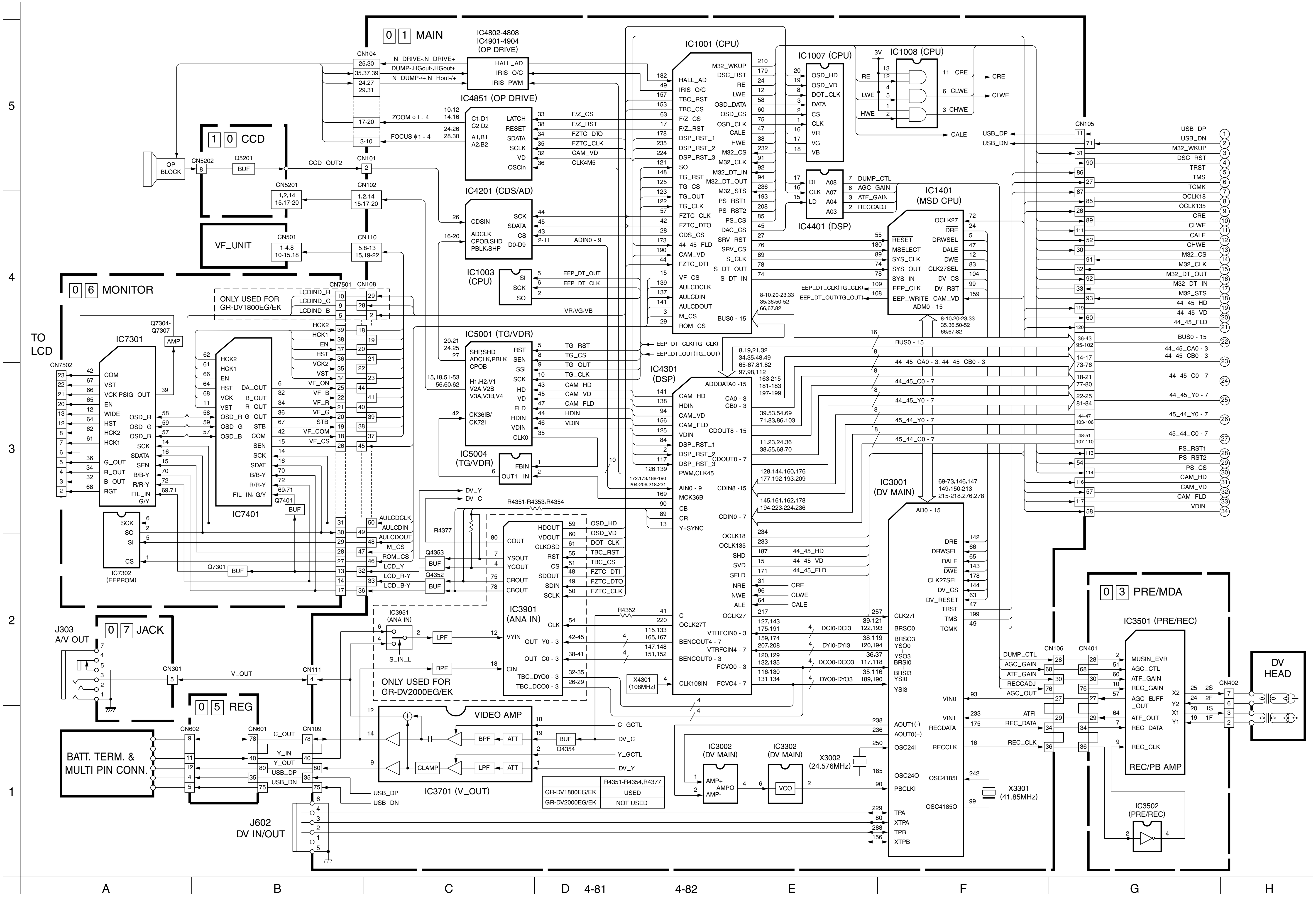
4.36 POWER SYSTEM BLOCK DIAGRAM


05 REG
01 MAIN
10 CCD
03 PRE/MDA
02 DSC
04 AUDIO
07 JACK
08 EJECT
09 DECK OPE
06 MONITOR
VF_UNIT
LCD MODULE
BATT. TERM. & MULTI PIN CONN.
SUB OPE UNIT
TO BATTERY
(DET) TP2
(-) TP3
(+) TP1
F6101
F6102
F6103
L6101
L6102
L6111
IC6101
OUT1p
VCC3
VCC1
VCC2
OUT5
OUT3
OUT4
OUT2p
OUT6
CNT1
CNT3
Q6101 3V REG
Q6103 1.8V REG
Q6105 DRUM PWR
Q6106 CAP PWR
Q6107 4.8V REG
Q6108 SW REG
Q6110 12V REG
Q6111 15V REG
Q6114 CCD_7.5V REG
CN601
CN109
CN602
BATT_SW
SP UNREG
CHKUNREG
UNREG
M_UNREG
Z_UNREG
DSC_3V
A_REG3V
D_REG3V
REG_1.8V
DRUM_PWR
CAP_PWR
REG_4.8V
M_REG4.8
REG_12V
REG_15V
CCD_-7.5V
PWR_CTL
USBSENSE
USBDOWN
CDS/AD
IC4202 REG 3.1V
IC4201
CCD_3.1V
OP DRIVE
IC4802-IC4805 IC4807.IC1408 IC4901-IC4904 Q4804
IC4806
IC4851
L4853
Z_VCC
F_VCC
CPU
IC1002
IC1001
IC1004 IC1005 IC1006 IC1008
IC1003 Q1002
IC1007
LIT_3V
BATTCHK
AL_3V
AL_3VSYS
DSP
IC4401
IC4301
IC4302 REG 2.5V
X4301
SR_3V
DAC_2.9
REG_2.5V
PS DRIV
Q2001
PS_VCC
JLIP IF
IC1301
IC1302
REG CON
IC6001.Q6001-Q6005 BATT DC DET at PWR OFF
IC6003 REG 3V
IC6004
Q6007
LITHIUM
LIT_3V
TG/VDR
CCD_-7.5V
IC5002 REG 3.5V
IC5001
IC5004
MSD CPU
IC1401 IC1403 Q1403
Q1402
REEL_VCC
V OUT
Q3702
IC3702 REG 3V
IC3701
DV MAIN
IC3001
IC3002 IC3302
ANA IN
IC3901
R3902
IC3903
IC3951 Q3951 Q3953 Q3954
SHUTTER MDA
IC1201
CN102
CN104
CN103
CN106
CN105
CN112
CN111
CN113
CN108
CN110
CN5201
CCD_VL
CCD_VHH
-7.5V
Q5201
Z_VCC, F_VCC, PS_VCC
CN401
IC1601
IC1701.IC1702 Q1601
IC3501
IC3502
CN405
CN403
CN404
CN406
MDA_2.9
P_TR_2.9
CAPSTAN MOTOR
LOADING MOTOR
DRUM MOTOR
SENSOR
CN8401
IC8001.IC8004 IC8008.IC8009.IC8201
IC8006 REG 2.5V
IC8007 REG 3.3V
IC8202 REG 3.3V
IC8003
IC8401 Q8401
IC8203 IC8204
IC8402
CN201
CN203
CN204
Q2901
Q2203
Q2202
Q2605
IC2201
SPK+
SPK-
ZOOM_OPE. UNIT
CN301
R2862
IC2822
BT301
CN303
CN302
CN304
POWER LED
POWER OPE. UNIT
MMC/SD
SPEAKER
CN2422
CN2421
FRONT FPC UNIT
R2411
CN2412
IR_VCC
IR UNIT
CN2432
CN2431
CN7501
CN7502
VVDD
VSS
HVDD
VSSG
IC7501
Q7501 SW
F7501
T7502
T7501
BL UNIT
IC7302 IC7502
IC7301 IC7401
Q7302 Q7304.Q7306
CN501
LCD_VDD
1
2
3
4
5
A
B
C
D
E
F
G
H

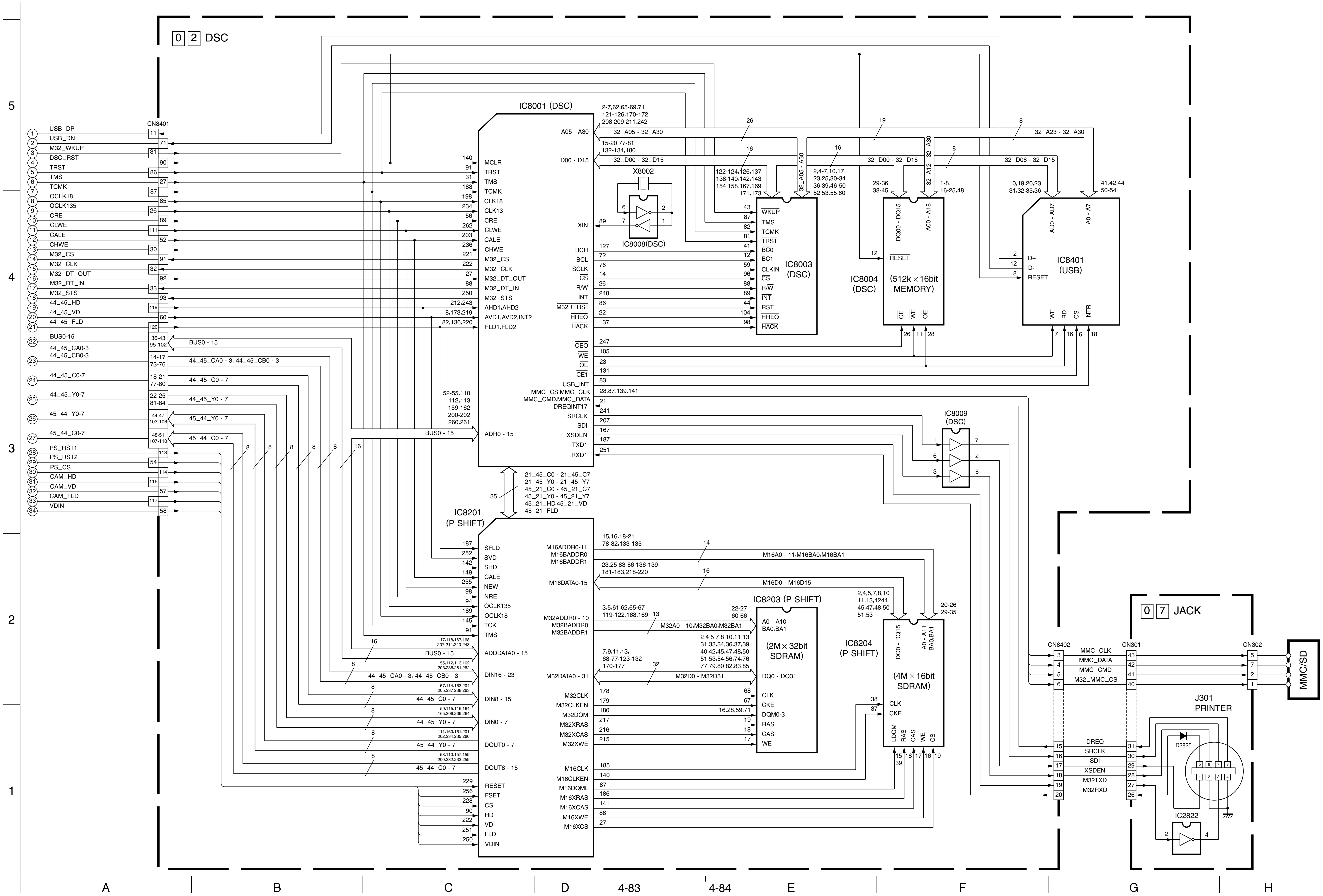
4.37 REGULATOR SYSTEM BLOCK DIAGRAM


05 REG
01 MAIN
07 JACK
TO BATTERY
(+) TP1
(DET) TP2
(-) TP3
F6101
F6102
L6101
L6102
IC6101 (DC-DC CONV CONTROL)
VCC1 5
VCC2 33
VCC3 34
OUT1p 39
IN1- 21
OUT5 45
IN5- 13
OUT3 38
IN3- 10
IN3+ 9
OUT4 44
IN4- 16
IN4+ 15
OUT2p 42
IN2- 18
OUT6 46
IN6- 24
CNT1 35
CNT3 36
Q6101,L6103, R6113,R6114
3V SW. REG
Q6103,L6107, R6118,R6119
1.8V SW. REG
Q6105,L6108, R6122,R6123
DRUM POWER
Q6106,L6109, R6128,R6129
CAPSTAN POWER
Q6107,L6110, R6134-R6136
4.8V SW. REG
L6111
Q6108
SW. REG
F6103
C6143
D6106
Q6109
DIF AMP
Q6110
REG 12V
REG 15V
Q6111
C6149
D6108
Q6113
DIF AMP
Q6114
REG -7.5V
CN601
CN109
32 CHKUNREG
72 BATT_SW
29 SP_UNREG
30
27 UNREG
28
44 M_UNREG
45
68 Z_UNREG
69
11 DSC_3V
12
13
14
15 A_REG3V
16
17
18
19 D_REG3V
20
21
22
23 REG_1.8V
24
25
26
2 DRUM_PWR
3
1 DRUM_ERR
42 CAP_PWR
43
41 CAP_ERR
4 M_REG4.8
5
6
48 REG_4.8V
49
50
51
9 REG_12V
10
46 REG_15V
47
7 CCD_-7.5
8
71 PWR_CTL
R6003
IC6001
BATT DC DET at POWER OFF
1
2
R6002
R6005
R6006
Q6004 POWER OFF/ON
R6007
Q6005 POWER ON:H
L:ON
Q6003
Q6002
Q6001 L:ON
L6001
IC6003
3V REG
1
3
5
C6005
IC6004
RESET
2
1
Q6007
SW
R6012
IC1001 (CPU)
6 BATT_SW
79 PWR_CTL
55 RST
AL_3V
199 BATTCHK
D6002
LIT_3V
IC1002
8 VDD
R6017
D6001
Q6006
IC6002
3.3V REG
2
3
TO JIG CONNECTOR
CN107
7 CHG_STOP
CN111
16
LITHIUM
CN301
17
BT301
A
B
C
D
E
F
G
H
1
2
3
4
5

4.38 VIDEO SYSTEM BLOCK DIAGRAM

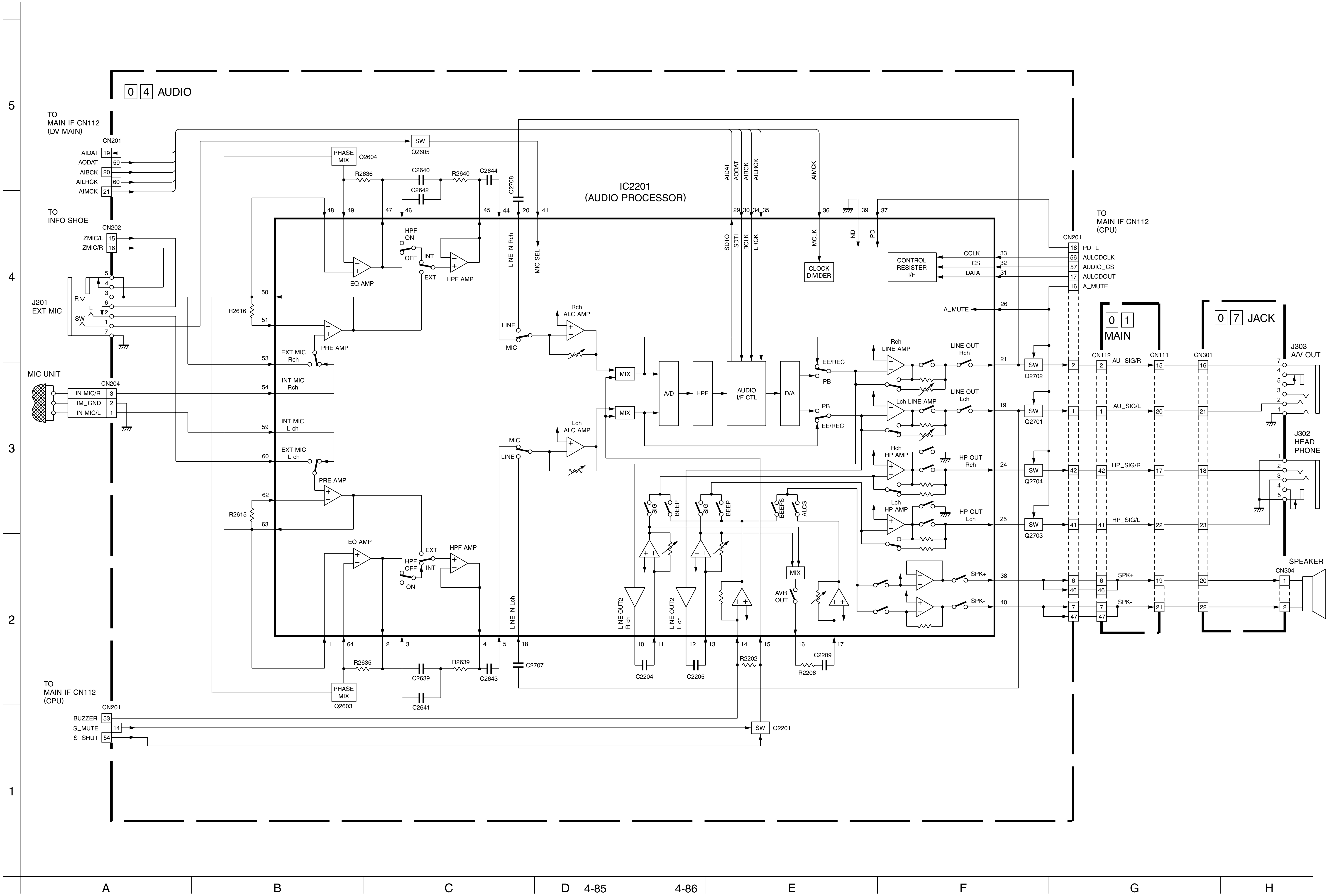

01 MAIN
IC4802-4808
IC4901-4904
(OP DRIVE)
IC4851 (OP DRIVE)
IC4201 (CDS/AD)
IC1003 (CPU)
IC5001 (TG/VDR)
IC5004 (TG/VDR)
IC1001 (CPU)
IC1007 (CPU)
IC1008 (CPU)
IC4401 (DSP)
IC1401 (MSD CPU)
IC4301 (DSP)
IC3001 (DV MAIN)
IC3901 (ANA IN)
IC3951 (ANA IN)
S_IN_L
ONLY USED FOR GR-DV2000EG/EK
VIDEO AMP
IC3701 (V_OUT)
IC3002 (DV MAIN)
IC3302 (DV MAIN)
X3002 (24.576MHz)
X3301 (41.85MHz)
X4301 (108MHz)
10 CCD
OP BLOCK
Q5201
BUF
VF_UNIT
06 MONITOR
ONLY USED FOR GR-DV1800EG/EK
TO LCD
IC7301
IC7401
IC7302 (EEPROM)
Q7304-Q7307
AMP
Q7401
Q7301
07 JACK
J303 A/V OUT
05 REG
BATT. TERM. & MULTI PIN CONN.
J602 DV IN/OUT
03 PRE/MDA
IC3501 (PRE/REC)
REC/PB AMP
IC3502 (PRE/REC)
DV HEAD
CN104
CN101
CN102
CN110
CN108
CN111
CN109
CN105
CN106
CN401
CN402
CN5202
CN5201
CN501
CN7501
CN7502
CN301
CN602
CN601
USB_DP
USB_DN
M32_WKUP
DSC_RST
TRST
TMS
TCMK
OCLK18
OCLK135
CRE
CLWE
CALE
CHWE
M32_CS
M32_CLK
M32_DT_OUT
M32_DT_IN
M32_STS
44_45_HD
44_45_VD
44_45_FLD
BUS0 - 15
44_45_CA0 - 3
44_45_CB0 - 3
44_45_C0 - 7
44_45_Y0 - 7
45_44_Y0 - 7
45_44_C0 - 7
PS_RST1
PS_RST2
PS_CS
CAM_HD
CAM_VD
CAM_FLD
VDIN
1
2
3
4
5
A
B
C
D
E
F
G
H

	R4351-R4354, R4377
GR-DV1800EG/EK	USED
GR-DV2000EG/EK	NOT USED



02 DSC
07 JACK
IC8001 (DSC)
IC8201 (P SHIFT)
IC8003 (DSC)
IC8004 (DSC)
(512k × 16bit MEMORY)
IC8401 (USB)
IC8008(DSC)
X8002
IC8009 (DSC)
IC8203 (P SHIFT)
(2M × 32bit SDRAM)
IC8204 (P SHIFT)
(4M × 16bit SDRAM)
CN8401
CN8402
CN301
CN302
J301 PRINTER
IC2822
D2825
MMC/SD
USB_DP
USB_DN
M32_WKUP
DSC_RST
TRST
TMS
TCMK
OCLK18
OCLK135
CRE
CLWE
CALE
CHWE
M32_CS
M32_CLK
M32_DT_OUT
M32_DT_IN
M32_STS
44_45_HD
44_45_VD
44_45_FLD
BUS0-15
44_45_CA0-3
44_45_CB0-3
44_45_C0-7
44_45_Y0-7
45_44_Y0-7
45_44_C0-7
PS_RST1
PS_RST2
PS_CS
CAM_HD
CAM_VD
CAM_FLD
VDIN
MCLR
CLK18
CLK13
AHD1.AHD2
AVD1.AVD2.INT2
FLD1.FLD2
ADR0 - 15
A05 - A30
D00 - D15
XIN
BCH
BCL
SCLK
CS
R/W
INT
M32R_RST
HREQ
HACK
CEO
WE
OE
CE1
USB_INT
MMC_CS.MMC_CLK
MMC_CMD.MMC_DATA
DREQINT17
SRCLK
SDI
XSDEN
TXD1
RXD1
32_A05 - 32_A30
32_A23 - 32_A30
32_D00 - 32_D15
32_D08 - 32_D15
32_A12 - 32_A30
WKUP
TMS
TCMK
TRST
BC0
BC1
CLKIN
RST
DQ00 - DQ15
A00 - A18
RESET
AD0 - AD7
A0 - A7
D+
D-
RD
INTR
21_45_C0 - 21_45_C7
21_45_Y0 - 21_45_Y7
45_21_C0 - 45_21_C7
45_21_Y0 - 45_21_Y7
45_21_HD.45_21_VD
45_21_FLD
SFLD
SVD
SHD
NEW
NRE
OCLK135
TCK
ADDDATA0 - 15
DIN16 - 23
DIN8 - 15
DIN0 - 7
DOUT0 - 7
DOUT8 - 15
FSET
HD
VD
FLD
M16ADDR0-11
M16BADDR0
M16BADDR1
M16DATA0-15
M32ADDR0 - 10
M32BADDR0
M32BADDR1
M32DATA0 - 31
M32CLK
M32CLKEN
M32DQM
M32XRAS
M32XCAS
M32XWE
M16CLK
M16CLKEN
M16DQML
M16XRAS
M16XCAS
M16XWE
M16XCS
M16A0 - 11.M16BA0.M16BA1
M16D0 - M16D15
M32A0 - 10.M32BA0.M32BA1
M32D0 - M32D31
A0 - A10
BA0.BA1
DQ0 - DQ31
CKE
DQM0-3
RAS
CAS
A0 - A11
LDQM
MMC_CLK
MMC_DATA
MMC_CMD
M32_MMC_CS
DREQ
M32TXD
M32RXD
A
B
C
D
E
F
G
H
1
2
3
4
5

4.39 AUDIO SYSTEM BLOCK DIAGRAM



0 4 AUDIO
TO MAIN IF CN112 (DV MAIN)
CN201
AIDAT 19
AODAT 59
AIBCK 20
AILRCK 60
AIMCK 21
TO INFO SHOE
CN202
ZMIC/L 15
ZMIC/R 16
J201 EXT MIC
R
L
SW
MIC UNIT
CN204
IN MIC/R 3
IM_GND 2
IN MIC/L 1
PHASE MIX
Q2604
SW
Q2605
R2636
C2640
C2642
R2640
C2644
C2708
IC2201 (AUDIO PROCESSOR)
AIDAT
AODAT
AIBCK
AILRCK
AIMCK
SDTO
SDTI
BCLK
LRCK
MCLK
ND
PD
CLOCK DIVIDER
CONTROL RESISTER I/F
CCLK
CS
DATA
A_MUTE
EQ AMP
HPF ON
HPF OFF
INT
EXT
HPF AMP
LINE IN Rch
MIC SEL
R2616
PRE AMP
EXT MIC Rch
INT MIC Rch
INT MIC L ch
EXT MIC L ch
R2615
Rch ALC AMP
Lch ALC AMP
LINE
MIC
MIX
A/D
HPF
AUDIO I/F CTL
D/A
EE/REC
PB
Rch LINE AMP
Lch LINE AMP
LINE OUT Rch
LINE OUT Lch
Rch HP AMP
Lch HP AMP
HP OUT Rch
HP OUT Lch
SW
Q2702
Q2701
Q2704
Q2703
SIG
BEEP
BEEPS
ALCS
AVR OUT
LINE OUT2 R ch
LINE OUT2 L ch
SPK+
SPK-
LINE IN Lch
C2707
C2204
C2205
R2202
R2206
C2209
R2635
C2639
C2641
R2639
C2643
Q2603
TO MAIN IF CN112 (CPU)
CN201
BUZZER 53
S_MUTE 14
S_SHUT 54
SW
Q2201
TO MAIN IF CN112 (CPU)
CN201
PD_L 18
AULCDCLK 56
AUDIO_CS 57
AULCDOUT 17
A_MUTE 16
0 1 MAIN
CN112
CN111
AU_SIG/R
AU_SIG/L
HP_SIG/R
HP_SIG/L
0 7 JACK
CN301
J303 A/V OUT
J302 HEAD PHONE
SPEAKER
CN304
1
2
3
4
5
A
B
C
D
E
F
G
H

E. & O. E. No. 86604

(Sanwa)-M14D6L